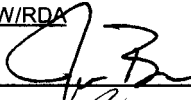



TPC Summary Report

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Project Number: **5974-2 Option 3-R**

<u>ESTIMATE ELEMENT</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>TOTAL</u>
Total Estimated Cost (TEC)	\$153,306,116	10.43% \$15,987,848	52.47% \$88,834,507	\$258,128,471
Other Project Cost (OPC)	\$6,661,367	16.08% \$1,071,148	71.97% \$5,565,253	\$13,297,767
<hr/>				
Total Project Cost (TPC)	\$159,967,482	10.66% \$17,058,996	53.33% \$94,399,760	\$271,426,238
Rounded TPC	(Rounded to the nearest \$ 1000000)			\$271,000,000

	Remarks
Type of Estimate: <u>Project Support</u> Estimator: <u>SNW/RDA</u> Checked By:  Approved By: 	



Project Summary Report

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
1.0	ESH&Q	\$12,550,161	\$1,017,861	\$5,862,986	43.21%	\$19,431,614
1.01	--ENVIRONMENTAL	\$6,089,836	\$493,886	\$2,844,817	43.21%	\$9,428,539
1.02	--SAFETY ANALYSIS	\$987,541	\$80,090	\$461,322	43.21%	\$1,528,952
1.03	--SAFETY & HEALTH	\$1,771,765	\$143,690	\$827,665	43.21%	\$2,743,120
1.04	--FIRE PROTECTION	\$145,227	\$11,778	\$67,841	43.21%	\$224,846
1.05	--RADIOLOGICAL CONTROLS	\$532,498	\$43,186	\$248,752	43.21%	\$824,435
1.07	--EMERGENCY PLANNING	\$19,364	\$1,570	\$9,046	43.21%	\$29,979
1.08	--SAFEGUARDS & SECURITY	\$100,000	\$8,110	\$46,714	43.21%	\$154,824
1.09	--QUALITY	\$2,904,532	\$235,558	\$1,356,829	43.21%	\$4,496,918
2.0	DESIGN ENGINEERING	\$19,363,548	\$1,197,829	\$13,769,047	66.97%	\$34,330,425
2.01	--CONCEPTUAL DESIGN	\$3,872,710	\$100,690	\$2,660,811	66.97%	\$6,634,211
2.02	--PRELIMINARY DESIGN	\$5,809,064	\$311,947	\$4,098,971	66.97%	\$10,219,982
2.03	--FINAL DESIGN	\$9,681,774	\$785,192	\$7,009,265	66.97%	\$17,476,231
3.0	PROCUREMENT	\$42,111,647	\$3,420,121	\$25,484,121	55.90%	\$71,075,888
3.1	--PROCUREMENT MANAGEMENT	\$1,568,447	\$127,201	\$947,805	55.90%	\$2,643,454
3.2	--PROCUREMENT - EQUIPMENT	\$34,834,591	\$2,825,085	\$21,050,374	55.90%	\$58,710,050
3.2.01	---RETRIEVAL EQUIPMENT	\$6,958,900	\$564,367	\$4,205,229	55.90%	\$11,728,496
3.2.02	---WASH BAY EQUIPMENT	\$258,322	\$20,950	\$156,103	55.90%	\$435,375
3.2.04	---MSB/GLOVEBOX EQUIPMENT	\$137,800	\$11,176	\$83,272	55.90%	\$232,247
3.2.05	---FABRIC STRUCTURES-PROCUREMENT	\$2,596,046	\$210,539	\$1,568,778	55.90%	\$4,375,363
3.2.06	---LINER PANEL-PROCUREMENT	\$21,526,418	\$1,745,793	\$13,008,310	55.90%	\$36,280,521
3.2.07	---PLANT AIR COMPRESSOR-PROCUREMENT	\$28,620	\$2,321	\$17,295	55.90%	\$48,236
3.2.08	---RADIOLOGICAL/CRITICALITY MONITORING EQUIP.-PROCUREMENT	\$732,248	\$59,385	\$442,494	55.90%	\$1,234,127
3.2.10	---HVAC EQUIPMENT-PROCUREMENT	\$2,301,058	\$186,616	\$1,390,518	55.90%	\$3,878,191

INEEL

Project Summary Report

Project Name: **OU 7-10 Staged Interim Action
Stage III Project - Retrieval System Project - Option 3**
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
Prepared By: **SNW/RDA**
Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
3.2.11	---CHILLER EQUIPMENT-PROCUREMENT	\$295,179	\$23,939	\$178,375	55.90%	\$497,494
3.3	--BBWI MATERIAL HANDLING FEE	\$5,768,608	\$467,834	\$3,485,942	55.90%	\$9,722,384
4.0	CONSTRUCTION	\$70,506,563	\$9,419,677	\$39,550,708	49.48%	\$119,476,948
4.1	--CONSTRUCTION MANAGEMENT	\$6,777,242	\$905,440	\$3,001,265	49.48%	\$11,403,947
4.2	--CONSTRUCTION SUBCONTRACTS	\$63,729,321	\$0,514,237	\$35,749,443	49.48%	\$107,993,001
4.2.01	---GENERAL CONDITIONS	\$13,275,616	\$1,773,622	\$7,446,879	49.48%	\$22,496,117
4.2.02	----SITEWORK	\$996,023	\$133,069	\$558,680	49.48%	\$1,687,772
4.2.02.01	-----RELOCATE BERM & DRAINAGE	\$289,307	\$38,651	\$162,276	49.48%	\$490,234
4.2.02.01.01	-----SITEWORK	\$229,289	\$30,633	\$128,611	49.48%	\$388,532
4.2.02.01.01.01	-----Demo Lift Station Concrete	\$33,201	\$4,436	\$18,623	49.48%	\$56,259
4.2.02.01.01.02	-----Demo Lift Station Electrical	\$6,922	\$925	\$3,883	49.48%	\$11,729
4.2.02.01.01.03	-----Demo Fire Pipe in Berm	\$8,300	\$1,109	\$4,656	49.48%	\$14,065
4.2.02.01.01.04	-----Excavate New Basin	\$19,878	\$2,656	\$11,150	49.48%	\$33,683
4.2.02.01.01.05	-----Relocate North Berm	\$151,773	\$20,277	\$85,131	49.48%	\$257,182
4.2.02.01.01.06	-----Ex & Backfill Discharge Pipe	\$9,214	\$1,231	\$5,168	49.48%	\$15,614
4.2.02.01.02	-----CONCRETE	\$24,543	\$3,279	\$13,766	49.48%	\$41,588
4.2.02.01.02.01	-----Concrete Lift Station	\$20,648	\$2,759	\$11,582	49.48%	\$34,988
4.2.02.01.02.02	-----Ductbank Concrete	\$3,895	\$520	\$2,185	49.48%	\$6,600
4.2.02.01.05	-----METALS	\$5,903	\$789	\$3,311	49.48%	\$10,003
4.2.02.01.15	-----MECHANICAL	\$22,175	\$2,963	\$12,438	49.48%	\$37,576
4.2.02.01.16	-----ELECTRICAL	\$7,397	\$988	\$4,149	49.48%	\$12,535
4.2.02.01.16.01	-----Switchgear & Transformers	\$970	\$130	\$544	49.48%	\$1,643
4.2.02.01.16.02	-----Raceways & Fittings	\$3,015	\$403	\$1,691	49.48%	\$5,109
4.2.02.01.16.03	-----Conductors & Grounding	\$1,818	\$243	\$1,020	49.48%	\$3,080
4.2.02.01.16.04	-----Testing	\$1,595	\$213	\$894	49.48%	\$2,702
4.2.02.02	---EARTHWORK	\$484,771	\$64,765	\$271,914	49.48%	\$821,451

INEEL

Project Summary Report

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency %</u>	<u>TOTAL</u>
4.2.02.02.01	RFS EARTHWORK	\$438,301	\$58,557	\$245,848	49.48%	\$742,705
4.2.02.02.02	-----WASH BAY EARTHWORK	\$4,480	\$599	\$2,513	49.48%	\$7,592
4.2.02.02.04	-----MAIN SUPPORT BUILDING EARTHWORK	\$18,118	\$2,421	\$10,163	49.48%	\$30,701
4.2.02.02.07	CHARACTERIZATION AIRLOCK EARTHWORK	\$23,872	\$3,189	\$13,390	49.48%	\$40,452
4.2.02.03	-----ROADWAYS & PAVING	\$221,945	\$29,652	\$124,491	49.48%	\$376,087
4.2.03	---CONCRETE	\$2,138,866	\$285,752	\$1,199,989	49.49%	\$3,624,607
4.2.03.01	-----RFS CONCRETE	\$1,494,709	\$199,693	\$838,591	49.49%	\$2,532,994
4.2.03.02	---WASH BAY CONCRETE	\$26,077	\$3,484	\$14,630	49.49%	\$44,191
4.2.03.04	-----MAIN SUPPORT BUILDING CONCRETE	\$529,862	\$70,790	\$297,273	49.49%	\$897,925
4.2.03.07	---CHARACTERIZATION AIRLOCK CONCRETE	\$88,218	\$11,786	\$49,494	49.49%	\$149,497
4.2.05	---METALS	\$9,878,020	\$1,319,704	\$5,540,712	49.48%	\$16,738,436
4.2.05.01	-----RFS METALS	\$7,078,280	\$945,658	\$3,970,301	49.48%	\$11,994,239
4.2.05.01.01	RFS STRUCTURAL STEEL	\$5,962,705	\$796,617	\$3,344,560	49.48%	\$10,103,882
4.2.05.01.02	RFS MISC. METALS	\$1,115,575	\$149,041	\$625,741	49.48%	\$1,890,357
4.2.05.02	----WASH BAY METALS	\$322,626	\$43,103	\$180,965	49.48%	\$546,693
4.2.05.03	---CLEAN TRANSFER AIRLOCK METALS	\$119,192	\$15,924	\$66,856	49.48%	\$201,972
4.2.05.04	---MAIN SUPPORT BUILDING METALS	\$448,870	\$59,969	\$251,777	49.48%	\$760,616
4.2.05.05	---HVAC ROOM METALS	\$1,084,509	\$144,890	\$608,315	49.48%	\$1,837,715
4.2.05.06	---PERSONNEL AIRLOCK METALS	\$138,785	\$18,542	\$77,846	49.48%	\$235,173
4.2.05.07	-----CHARACTERIZATION AIRLOCK METALS	\$685,760	\$91,618	\$384,652	49.48%	\$1,162,029
4.2.08	---DOORS & WINDOWS	\$1,011,538	\$135,141	\$567,418	49.48%	\$1,714,098
4.2.08.01	-----RFS DOORS & WINDOWS	\$200,576	\$26,797	\$112,512	49.48%	\$339,885
4.2.08.04	-----MAIN SUPPORT BLDG. DOORS & WINDOWS	\$310,962	\$41,545	\$174,433	49.48%	\$526,940
4.2.08.10	----SPECIALTY DOORS	\$500,000	\$66,800	\$280,473	49.48%	\$847,273
4.2.09	---FINISHES	\$784,799	\$104,849	\$440,234	49.48%	\$1,329,882
4.2.09.04	-----MAIN SUPPORT BUILDING FINISHES	\$186,155	\$24,870	\$104,424	49.48%	\$315,450

INEEL

Project Summary Report

Project Name: **OU 7-10 Staged Interim Action
Stage III Project - Retrieval System Project - Option 3**
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
Prepared By: **SNW/RDA**
Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency %</u>	<u>TOTAL</u>
4.2.09.10	----STRIPPABLE COATINGS	\$598,644	\$79,979	\$335,810	49.48%	\$1,014,432
4.2.11	—EQUIPMENT	\$12,815	\$1,712	\$7,188	49.48%	\$21,715
4.2.11.01	----WASH BAY EQUIPMENT	\$12,815	\$1,712	\$7,188	49.48%	\$21,715
4.2.13	—SPECIAL CONSTRUCTION	\$13,151,223	\$1,757,003	\$7,377,113	49.48%	\$22,285,339
4.2.13.01	--FACILITY MOCK-UP	\$2,606,000	\$348,162	\$1,461,823	49.48%	\$4,415,984
4.2.13.02	---STRUCTURE ERECTIONS	\$10,545,223	\$1,408,842	\$5,915,290	49.48%	\$17,869,355
4.2.13.02.01	ERECT FABRIC STRUCTURES	\$3,742,316	\$499,973	\$2,099,233	49.48%	\$6,341,523
4.2.13.02.02	ERECT LINER PANELS	\$6,802,907	\$908,868	\$3,816,057	49.48%	\$11,527,832
4.2.14	—CONVEYING SYSTEMS	\$11,309	\$1,511	\$6,344	49.49%	\$19,163
4.2.14.04	----MAIN SUPPORT BLDG. CONVEYING SYSTEMS	\$11,309	\$1,511	\$6,344	49.49%	\$19,163
4.2.15	—MECHANICAL	\$11,059,020	\$1,477,485	\$6,203,853	49.49%	\$18,740,358
4.2.15.01	-----HVAC	\$6,709,354	\$896,370	\$3,763,791	49.49%	\$11,369,515
4.2.15.01.01	HVAC - DUCTWORK	\$5,580,778	\$745,592	\$3,130,687	49.49%	\$9,457,057
4.2.15.01.02	EXHAUST STACK	\$258,292	\$34,508	\$144,896	49.49%	\$437,696
4.2.15.01.03	-----EMISSIONS NOC MONITORING	\$278,600	\$37,221	\$156,288	49.49%	\$472,109
4.2.15.01.04	-----HVAC - EQUIPMENT	\$179,575	\$23,991	\$100,738	49.49%	\$304,304
4.2.15.01.05	-----CHILLER PIPING & EQUIPMENT	\$412,108	\$55,058	\$231,183	49.49%	\$698,349
4.2.15.02	-----FIRE PROTECTION	\$2,150,986	\$287,372	\$1,206,653	49.49%	\$3,645,010
4.2.15.02.01	RPS FIRE SYSTEM CONTROLS	\$558,960	\$74,677	\$313,564	49.49%	\$947,201
4.2.15.02.02	RFS DRY PIPE FIRE PROTECTION	\$808,050	\$107,955	\$453,297	49.49%	\$1,369,303
4.2.15.02.04	RFS EXTRA HAZARD FOAM SYSTEM	\$591,500	\$79,024	\$331,818	49.49%	\$1,002,342
4.2.15.02.05	MAIN SUPPORT BUILDING DRY PIPE SYSTEM	\$116,880	\$15,615	\$65,567	49.49%	\$198,062
4.2.15.02.06	ADDITIONAL MAIN SUPPORT BUILDING FIRE PROTECTION SYSTEMS	\$44,936	\$6,003	\$25,208	49.49%	\$76,147
4.2.15.02.07	-----AIRLOCK TO CHARACTERIZATION FIRE PROTECTION	\$30,660	\$4,096	\$17,200	49.49%	\$51,956
4.2.15.03	---PLANT AIR	\$322,728	\$43,116	\$181,043	49.49%	\$546,887
4.2.15.04	---BREATHING AIR	\$619,696	\$82,791	\$347,635	49.49%	\$1,050,122

INEEL

Project Summary Report

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Continaency %</u>	<u>TOTAL</u>
4.2.15.05	—DUST SUPPRESSION	\$276,726	\$36,971	\$155,237	49.49%	\$468,933
4.2.15.06	---MISC. MECHANICAL	\$979,530	\$130,865	\$549,494	49.49%	\$1,659,890
4.2.16	—ELECTRICAL	\$11,410,093	\$1,524,388	\$6,401,033	49.49%	\$19,335,514
4.2.16.01	---GENERAL FACILITIES ELECTRICAL	\$5,941,992	\$793,850	\$3,333,443	49.49%	\$10,069,285
4.2.16.02	—ELECTRICAL SWITCH GEAR & PANEL BOARDS	\$437,998	\$58,516	\$245,716	49.49%	\$742,230
4.2.16.02.01	MAIN FEED CONDUITS AND CONDUCTORS	\$75,732	\$10,118	\$42,485	49.49%	\$128,335
4.2.16.02.02	-----TRANSFORMERS	\$79,734	\$10,652	\$44,731	49.49%	\$135,117
4.2.16.02.03	-----SITEWORK	\$29,621	\$3,957	\$16,617	49.49%	\$50,195
4.2.16.02.04	SWITCHGEAR	\$233,022	\$31,132	\$130,725	49.49%	\$394,878
4.2.16.02.05	MISC. CONNECTIONS	\$7,132	\$953	\$4,001	49.49%	\$12,086
4.2.16.02.06	-----TESTING	\$12,757	\$1,704	\$7,157	49.49%	\$21,618
4.2.16.03	- —MONITORING AND CONTROLS	\$1,400,070	\$187,049	\$785,436	49.49%	\$2,372,555
4.2.16.04	- —CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION	\$76,904	\$10,274	\$43,143	49.49%	\$130,321
4.2.16.05	-----CCTV MONITORING SYSTEM	\$215,152	\$28,744	\$120,700	49.49%	\$364,596
4.2.16.06	---INTEGRATION CONTROLS SYSTEM	\$3,337,977	\$445,954	\$1,872,597	49.49%	\$5,656,527
6.0	TESTING & TURNOVER	\$6,661,367	\$1,071,148	\$5,565,253	71.97%	\$13,297,767
OPC3100	--TESTING AND TURNOVER PLANNING	\$193,635	\$31,137	\$161,773	71.97%	\$386,545
OPC3200	--S. O. TESTING	\$2,904,532	\$467,049	\$2,426,598	71.97%	\$5,798,179
OPC3300	--ORR SUPPORT	\$212,999	\$34,250	\$177,950	71.97%	\$425,200
OPC3400	--FACILITY ACCEPTANCE REVIEW	\$145,227	\$23,352	\$121,330	71.97%	\$289,909
OPC3500	--RADIOLOGICAL CONTROL SUPPORT	\$106,500	\$17,125	\$88,975	71.97%	\$212,600
OPC3600	--OPERATOR TRAINING	\$1,936,355	\$311,366	\$1,617,732	71.97%	\$3,865,452
OPC3700	--OPERATING PROCEDURES	\$425,998	\$68,500	\$355,901	71.97%	\$850,400
OPC3800	--START-UP COORDINATION	\$125,863	\$20,239	\$105,153	71.97%	\$251,254
OPC3900	--SPARES	\$610,258	\$98,129	\$509,841	71.97%	\$1,218,228

INEEL

Project Summary Report

Project Name: *OU 7-10 Staged Interim Action
Stage III Project - Retrieval System Project - Option 3*
Project Location: *INEEL-RWMC*
Estimate Number: *5974-2 Option 3-R*

Client: *S. L. Austad*
Prepared By: *SNW/RDA*
Estimate Type: *Project Support*

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency%</u>	<u>TOTAL</u>
7.0	PROJECT MANAGEMENT	\$8,713,597	\$932,355	\$4,167,644	43.24%	\$13,813,596

Total	OU 7-10 STAGE III - RETRIEVAL SYSTEM PROJECT - OPTION # 3	\$159,967.482	\$17,058,996	\$94,399,760	53.33%	\$271,426,238
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DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equip</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>1.01 ENVIRONMENTAL</u>												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCS effort, OU 7-10 PIT-9 STAGE III- LCS, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
	ENVIRONMENTAL		U.C. per \$									
			96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$6,089,836	\$6,089,836
Subtotal							\$0	\$0	\$0	\$0	\$6,089,836	\$6,089,836
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$6,089,836
Escalation							\$0	\$0	\$0	\$0	\$493,886	\$493,886
Contingency							\$0	\$0	\$0	\$0	\$2,844,817	\$2,844,817
--Total 1.01 ENVIRONMENTAL					0		\$0	\$0	\$0	\$0	\$9,428,539	\$9,428,539

1.02 SAFETY ANALYSIS

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III- LCB, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.

	SAFETY ANALYSIS		U.C. per \$									
			96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$987,541	\$987,541
Subtotal							\$0	\$0	\$0	\$0	\$987,541	\$987,541
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$987,541
Escalation							\$0	\$0	\$0	\$0	\$80,090	\$80,090
Contingency							\$0	\$0	\$0	\$0	\$461,322	\$461,322
--Total 1.02 SAFETY ANALYSIS					0		\$0	\$0	\$0	\$0	\$1,528,952	\$1,528,952

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
1.03 SAFETY & HEALTH												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
	SAFETY & HEALTH											
		U.C. per \$										
		96,817,741.00	\$		0		\$0	\$0	\$0	\$0	0.018	0.018
											\$1,771,765	\$1,771,765
<hr/>												
	Subtotal						\$0	\$0	\$0	\$0	\$1,771,765	\$1,771,765
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$1,771,765
	Escalation						\$0	\$0	\$0	\$0	\$143,690	\$143,690
	Contingency						\$0	\$0	\$0	\$0	\$827,665	5827,665
<hr/>												
--Total	1.03 SAFETY & HEALTH				0		\$0	\$0	\$0	\$0	\$2,743,120	\$2,743,120

1.04 FIRE PROTECTION

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.

	FIRE PROTECTION											
		U.C. per \$										
		96,817,741.00	\$		0		\$0	\$0	\$0	\$0	0.001	0.001
											\$145,227	\$145,227
<hr/>												
	Subtotal						\$0	\$0	\$0	\$0	\$145,227	\$145,227
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$145,227
	Escalation						\$0	\$0	\$0	\$0	\$11,778	\$11,778
	Contingency						\$0	\$0	\$0	\$0	\$67,841	\$67,841
<hr/>												
—Total	1.04 FIRE PROTECTION				0		\$0	\$0	\$0	\$0	\$224,846	\$224,846

DETAIL ITEM REPORT

Project Name: *OU 7-10 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 3
 Project Location: *INEEL-RWMC*
 Estimate Number: *5974-2 Option 3-R*

Client: *S. L. Austad*
 Prepared By: *SNW/RDA*
 Estimate Type: *Project Support*

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
1.05 RADIOLOGICAL CONTROLS												
Memo: <i>Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.</i>												
		<i>U.C. per \$</i>										
	RADIOLOGICAL CONTROLS	96,817,741.00	\$		0			\$0	\$0	\$0	\$0	0.006
											\$532,498	\$532,498
Subtotal								\$0	\$0	\$0	\$0	\$532,498
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads		<i>0.00%</i>						\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$532,498
Escalation								\$0	\$0	\$0	\$43,186	\$43,186
Contingency								\$0	\$0	\$0	\$248,752	\$248,752
—Total 1.05 RADIOLOGICAL CONTROLS					0			\$0	\$0	\$0	\$0	\$824,435

1.07 EMERGENCY PLANNING

Memo: *Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, **OU 7-10 PIT-9 STAGE III - LCB**, estimate # 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.*

		<i>U.C. per \$</i>										
	EMERGENCY PLANNING	96,817,741.00	\$		0			\$0	\$0	\$0	\$0	0
											\$19,364	\$19,364
Subtotal								\$0	\$0	\$0	\$0	\$19,364
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads		<i>0.00%</i>						\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$19,364
Escalation								\$0	\$0	\$0	\$1,570	\$1,570
Contingency								\$0	\$0	\$0	\$9,046	\$9,046
—Total 1.07 EMERGENCY PLANNING					0			\$0	\$0	\$0	\$0	\$29,979

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
1.08 SAFEGUARDS & SECURITY												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
		U.C. per LS					0	0	0	0	100000	100000
	SAFEGUARDS & SECURITY		1.00	LS			0	\$0	\$0	\$0	\$0	\$100,000
Memo: Per Dave Wilkins.												
Subtotal								\$0	\$0	\$0	\$0	\$100,000
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads								\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$100,000
Escalation								\$0	\$0	\$0	\$8,110	\$8,110
Contingency								\$0	\$0	\$0	\$46,714	\$46,714
--Total 1.08 SAFEGUARDS & SECURITY					0			\$0	\$0	\$0	\$0	\$154,824

1.09 QUALITY												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.												
		U.C. per \$					0	0	0	0	0.03	0.03
	QUALITY		96,817,741.00	\$			0	\$0	\$0	\$0	\$0	\$2,904,532
Subtotal								\$0	\$0	\$0	\$0	\$2,904,532
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads								\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$2,904,532
Escalation								\$0	\$0	\$0	\$235,558	\$235,558
Contingency								\$0	\$0	\$0	\$1,356,829	\$1,356,829
--Total 1.09 QUALITY					0			\$0	\$0	\$0	\$0	\$4,496,918

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
2.01 CONCEPTUAL DESIGN												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.												
	CONCEPTUAL DESIGN EFFORT	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$3,872,710	\$0	\$3,872,710
Subtotal							\$0	\$0	\$0	\$3,872,710	\$0	\$3,872,710
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEU Subcontractor Overheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$3,872,710
Escalation							\$0	\$0	\$0	\$100,690	\$0	\$100,690
Contingency							\$0	\$0	\$0	\$2,660,811	\$0	\$2,660,811
—Total	2.01 CONCEPTUAL DESIGN				0		\$0	\$0	\$0	\$6,634,211	\$0	\$6,634,211

2.02 PRELIMINARY DESIGN

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.

	PRELIMINARY DESIGN	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$5,809,064	\$0	\$5,809,064
Subtotal							\$0	\$0	\$0	\$5,809,064	\$0	\$5,809,064
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEU Subcontractor Overheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$5,809,064
Escalation							\$0	\$0	\$0	\$311,947	\$0	\$311,947
Contingency							\$0	\$0	\$0	\$4,098,971	\$0	\$4,098,971
—Total	2.02 PRELIMINARY DESIGN				0		\$0	\$0	\$0	\$10,219,982	\$0	\$10,219,982

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
Prepared By: **SNW/RDA**
Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>2.03 FINAL DESIGN</u>												
<p><i>Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10/PIT-9 STAGE III - LCB, estimate # 5974-f. Also considered were percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.</i></p>												
	FINAL DESIGN	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	0.1	0.1
	Subtotal						\$0	\$0	\$0	\$0	\$9,681,774	\$9,681,774
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$9,681,774
	Escalation						\$0	\$0	\$0	\$0	\$785,192	\$785,192
	Contingency						\$0	\$0	\$0	\$0	\$7,009,265	\$7,009,265
---	Total 2.03 FINAL DESIGN				0		\$0	\$0	\$0	\$0	\$17,476,231	\$17,476,231

3.1 PROCUREMENTMANAGEMENT

PROCUREMENTSUPPORT	U.C. per\$	0	0	0	0	0.016	0.016
	96.817,741.00	\$ 0	\$0	\$0	\$0	\$1,568,447	\$1,568,447
Subtotal			\$0	\$0	\$0	\$0	\$1,568,447
Sales Tax			\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads	0.00%		\$0	\$0	\$0	\$0	\$0
Subtotal Estimate							\$1,568,447
Escalation			\$0	\$0	\$0	\$127,201	\$127,201
Contingency			\$0	\$0	\$0	\$947,805	\$947,805
—Total 3.1 PROCUREMENTMANAGEMENT		0	\$0	\$0	\$0	\$0	\$2,643,454

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.01 RETRIEVAL EQUIPMENT												
<i>Memo: Equipment costs were provided by the BBWI Engineering group, estimate file contains these sheets with notes and basis of costs.</i>												
BH-1,2	BACKHOE	U.C. per EA	2.00	EA	0		0	0	535000	0	0	535000
							\$0	\$0	\$1,070,000	\$0	\$0	\$1,070,000
Memo:												
FEL-1,2	LOADER/FORKLIFT	U.C. per EA	2.00	EA	0		0	0	710000	0	0	710000
							\$0	\$0	\$1,420,000	\$0	\$0	\$1,420,000
AGV-1,2	AUTOMATIC GUIDED VEHICLE	U.C. per EA	2.00	EA	0		0	0	225000	0	0	225000
							\$0	\$0	\$450,000	\$0	\$0	\$450,000
ML-1,2	MAN-LIFT	U.C. per EA	2.00	EA	0		0	0	150000	0	0	150000
							\$0	\$0	\$300,000	\$0	\$0	\$300,000
DH-1,2,3	DIRT HOPPER	U.C. per EA	3.00	EA	0		0	0	106333.33	0	0	106333.33
							\$0	\$0	\$325,000	\$0	\$0	\$325,000
RB-1-40	RETRIEVAL BOXES	U.C. per EA	40.00	EA	0		0	0	5750	0	0	5750
							\$0	\$0	\$230,000	\$0	\$0	\$230,000
UM-1,2	UTILITY MODULE	U.C. per EA	2.00	EA	0		0	0	500000	0	0	500000
							\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
DM-1,2	DECON MODULE	U.C. per EA	2.00	EA	0		0	0	300000	0	0	300000
							\$0	\$0	\$600,000	\$0	\$0	\$600,000
GM-1,2	GROUTING MODULE	U.C. per EA	2.00	EA	0		0	0	150000	0	0	150000
							\$0	\$0	\$300,000	\$0	\$0	\$300,000
DC-1,2	DIRT CHUTE	U.C. per EA	2.00	EA	0		0	0	75000	0	0	75000
							\$0	\$0	\$150,000	\$0	\$0	\$150,000
CAM-1,32	CAMERA SYSTEM	U.C. per LS	1.00	LS	0		0	0	700000	0	0	700000
							\$0	\$0	\$700,000	\$0	\$0	\$700,000

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.01 RETRIEVAL EQUIPMENT												
<i>Memo: Equipment costs were provided by the BBWI Engineering group, estimate file contains these sheets with notes and basis of costs.</i>												
	SHIPPING FOR ABOVE EQUIPMENT	U.C. per LS	1.00	LS	0		\$0	\$0	20000 \$20,000	0 \$0	0 \$0	20000 \$20,000
Subtotal							\$0	\$0	\$6,565,000	\$0	\$0	\$6,565,000
Sales Tax							\$0	\$0	\$393,900	\$0	\$0	\$393,900
INEEUSubcontractorOverheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$6,958,900
Escalation							\$0	\$0	\$564,367	\$0	\$0	\$564,367
Contingency							\$0	\$0	\$4,205,229	\$0	\$0	\$4,205,229
--Total 3.2.01 RETRIEVAL EQUIPMENT					0		\$0	\$0	\$11,728,496	\$0	\$0	\$11,728,496

3.2.02 WASH BAY EQUIPMENT

111791501410	U.C. per Ea.						0	0	16300	0	0	16300
Waste handling, for hazardous waste, 55 gal drum packerW/HEPA filter		1.00	Ea	0			\$0	\$0	\$16,300	\$0	\$0	\$16,300
Memo, For load out of Wash Bay filter solids.												
	U.C. per EA						0	0	3700	0	0	3700
WASH BAY FILTER FEED PUMP		2.00	EA	0			\$0	\$0	\$7,400	\$0	\$0	\$7,400
Memo: Taken from estimate #2646 SBW Treatment - NGLW CslX Study. Actual equipment requirements are undefined at this point in the design development. Used the information from estimate #2646 as an allowance												
	U.C. per EA						0	0	60000	0	0	60000
WASH BAY FILTER		2.00	EA	0			\$0	\$0	\$120,000	\$0	\$0	\$120,000
Memo: Taken from estimate #2646 SBW Treatment - NGLW CslX Study. Actual equipment requirements are undefined at this point in the design development. Used the information from estimate #2646 as an allowance.												

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescrIption</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EauiDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>3.2.02 WASH BAY EQUIPMENT</u>												
	SPRAY DECON SYSTEM -ALLOWANCE	<i>U.C. per LS</i>	1.00	LS	0		0 \$0	0 \$0	100000 \$100,000	0 \$0	0 \$0	100000 \$100,000
Subtotal							\$0	\$0	\$243,700	\$0	\$0	\$243,700
Sales Tax							\$0	\$0	\$14,622	\$0	\$0	\$14,622
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
												\$258,322
Subtotal Estimate												
Escalation							\$0	\$0	\$20,950	\$0	\$0	\$20,950
Contingency							\$0	\$0	\$156,103	\$0	\$0	\$156,103
--Total 3.2.02 WASH BAY EQUIPMENT					0		\$0	\$0	\$435,375	\$0	\$0	\$435,375

3.2.04 MSB/GLOVEBOX EQUIPMENT

	MAINT. BAY GLOVEBOX CRANE 2T REMOTE	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	130000 \$130,000	0 \$0	0 \$0	130000 \$130,000
Memo: Based on a vendor preliminary quote on a similar in-cell crane for another application. Received from American Crane, David Weber, on 4/25/03. Added \$5,000 to price for 2-ton model.												
Subtotal							\$0	\$0	\$130,000	\$0	\$0	\$130,000
Sales Tax							\$0	\$0	\$7,800	\$0	\$0	\$7,800
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
												\$137,800
Subtotal Estimate												
Escalation							\$0	\$0	\$11,176	\$0	\$0	\$11,176
Contingency							\$0	\$0	\$83,272	\$0	\$0	\$83,272
---Total 3.2.04 MSB/GLOVEBOX EQUIPMENT					0		\$0	\$0	\$232,247	\$0	\$0	\$232,247

3.2.05 FABRIC STRUCTURES-PROCUREMENT

Memo: Costs are based on information obtained from a fabric building fabricator, that also supplied the fabric building on the GEM project. This company understand the requirements at the INEEL.

	RETRIEVAL FACILITY STRUCTURE (RFS) FABRIC COVERING ONLY	<i>U.C. per SF</i>	127,300.00	SF	0		0 \$0	0 \$0	11 \$1,400,300	0 \$0	0 \$0	11 \$1,400,300
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DETAIL ITEM REPORT

Project Name: *OU 7-10 Staged Interim Action
Stage III Project - Retrieval System Project - Option 3*
Project Location: *INEEL-RWMC*
Estimate Number: *5974-2 Option 3-R*

Client: *S. L. Austad*
Prepared By: *SNW/RDA*
Estimate Type: *Project Support*

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.05 FABRIC STRUCTURES-PROCUREMENT												
<i>Memo: Costs are based on information obtained from a fabric building fabricator. that also supplied the fabric building on the GEM project. This company understand the requirements at the INEEL.</i>												
	RFS SPECIALTY PERSONNEL BALANCING DOOR	<i>U.C. par EA</i>	12.00	EA	0		0	0	8000	0	0	8000
							\$0	\$0	\$96,000	\$0	\$0	\$96,000
	MAIN SUPPORT BUILDING- FRAME, FABRIC, & DOORS	<i>U.C. par SF</i>	31,200.00	SF	0		0	0	26.5	0	0	26.5
							\$0	\$0	\$826,800	\$0	\$0	5826,800
	AIRLOCK CHARACTERIZATION STRUCTURE- FRAME, FABRIC	<i>U.C. par SF</i>	4,200.00	SF	0		0	0	30	0	0	30
							\$0	\$0	\$126,000	\$0	\$0	\$126,000
Subtotal							\$0	\$0	\$2,449,100	\$0	\$0	\$2,449,100
Sales Tax							\$0	\$0	\$146,946	\$0	\$0	\$146,946
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$2,596,046
Escalation							\$0	\$0	\$210,539	\$0	\$0	\$210,539
Contingency							\$0	\$0	\$1,568,778	\$0	\$0	\$1,568,778
—Total 3.2.05 FABRIC STRUCTURES-PROCUREMENT					0		\$0	\$0	\$4,375,363	\$0	\$0	\$4,375,363

3.2.06 LINER PANEL-PROCUREMENT

Memo: Costs are based on a surface per square foot from the GEM facility. This structure is a special engineered and design structure. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting.

RFS		<i>U.C. par SSF</i>	120,000.00	SSF	0		0	0	116.24	0	0	116.24
							\$0	\$0	\$13,948,800	\$0	\$0	\$13,948,800
WASH BAY STRUCTURE		<i>U.C. par SSF</i>	4,066.00	SSF	0		0	0	116.24	0	0	116.24
							\$0	\$0	\$472,632	\$0	\$0	\$472,632
CLEAN AIRLOCK TRANSFER STRUCTURE		<i>U.C. par SSF</i>	3,611.00	SSF	0		0	0	116.24	0	0	116.24
							\$0	\$0	\$419,743	\$0	\$0	\$419,743
HVAC ROOM STRUCTURE (@ 50% OF HVAC ROOM)		<i>U.C. par SSF</i>	22,509.00	SSF	0		0	0	116.24	0	0	116.24
							\$0	\$0	\$2,616,446	\$0	\$0	\$2,616,446

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquipDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.06 LINER PANEL-PROCUREMENT												
<i>Memo: Costs are based on a surface per square foot from the GEM facility. This structure is a special engineered and design structure. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting.</i>												
	PERSONNEL AIRLOCK STRUCTURE	U.C. per SSF	4,066.00	SSF	0			0	0	116.24	0	0
								\$0	\$0	\$472,632	\$0	\$0
												\$472,632
	MAINTENANCE BAY GLOVE BOX STRUCTURE	U.C. per SSF	5,215.00	SSF	0			0	0	116.24	0	0
								\$0	\$0	\$606,192	\$0	\$0
												\$606,192
	AIRLOCK TO CHARACTERIZATION STRUCTURE	U.C. per SSF	15,240.00	SSF	0			0	0	116.24	0	0
								\$0	\$0	\$1,771,498	\$0	\$0
												\$1,771,498
Subtotal							\$0	\$0	\$20,307,942	\$0	\$0	\$20,307,942
Sales Tax							\$0	\$0	\$1,210,477	\$0	\$0	\$1,218,477
INEEUSubcontractorOverheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$21,526,418
Escalation							\$0	\$0	\$1,745,793	\$0	\$0	\$1,745,793
Contingency							\$0	\$0	\$13,008,310	\$0	\$0	\$13,008,310
--Total 3.2.06 LINER PANEL-PROCUREMENT					0		\$0	\$0	\$36,280,521	\$0	\$0	\$36,280,521

3.2.07 PLANT AIR COMPRESSOR-PROCUREMENT

	PLANT ROTARY SCREW AIR COMPRESSOR 50 HP	U.C. per EA	1.00	EA	0			0	0	25000	0	0
								\$0	\$0	\$25,000	\$0	\$0
												\$25,000
<i>Memo: Costs are based on Richardson estimating manual for a 50 hp rotary screw type compressor including a 200 gallon tank, enclosed cabinet. For additional information see file cut sheet.</i>												
	FILTRATION SYSTEM FOR ABOVE COMPRESSOR	U.C. per EA	1.00	EA	0			0	0	2000	0	0
								\$0	\$0	\$2,000	\$0	\$0
												\$2,000

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescrIption</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.07 PLANT AIR COMPRESSOR-PROCUREMENT												
	B. AIR COMPRESSOR TO BE PROVIDED BY BBWI EQUIPMENT POOL, NO COST TO PROJECT	<i>U.C. per</i>	1.00		0		0 \$0	0 \$0	0.01 \$0	0 \$0	0 \$0	0.01 \$0
Subtotal							\$0	\$0	\$27,000	\$0	\$0	\$27,000
Sales Tax							\$0	\$0	\$1,620	\$0	\$0	\$1,620
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$28,620
Escalation							\$0	\$0	\$2,321	\$0	\$0	\$2,321
Contingency							\$0	\$0	\$17,295	\$0	\$0	\$17,295
---Total 3.2.07 PLANT AIR COMPRESSOR-PROCUREMENT					0		\$0	\$0	\$48,236	\$0	\$0	\$48,236

3.2.08 RADIOLOGICAL/CRITICALITY MONITORING EQUIP.-PROCUREMENT

	CRITICALITY MONITORING SYSTEM	<i>U.C. per EA</i>	3.00	EA	0		0 \$0	0 \$0	82200 \$246,600	0 \$0	0 \$0	82200 \$246,600
Memo: Costs are based on the GEM project, the gem project included one complete system. Based on assumption this project will require three complete systems. The complete system includes alarm system, panel boards, circuits, warning lights, and audible alarms.												
	RAD MONITORING EQUIPMENT, BASED ON THE EXACT EQUIPEMNT FROM GEM PROJECT	<i>U.C. per LS</i>	1.00	LS	0		0 \$0	0 \$0	444200 \$444,200	0 \$0	0 \$0	444200 \$444,200
Memo: This cost is based on the GEM project. Assume the same type of equipment and quantities will be required. The cost for the GEM project included updates to existing PMC's. New equipment included cams, air pumps, hand monitors, rad monitors, friskers, detectors, air samplers, etc.												
Subtotal							\$0	\$0	\$690,800	\$0	\$0	\$690,800
Sales Tax							\$0	\$0	\$41,448	\$0	\$0	\$41,448
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$732,248
Escalation							\$0	\$0	\$59,385	\$0	\$0	\$59,385
Contingency							\$0	\$0	\$442,494	\$0	\$0	\$442,494
---Total 3.2.08 RADIOLOGICAL/CRITICALITY MONITORING EQUIP.. PROCUREMENT					0		\$0	\$0	\$1,234,127	\$0	\$0	\$1,234,127

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.10 HVAC EQUIPMENT-PROCUREMENT												
	MIST ELIMINATOR	<i>U.C. per EA</i>	1.00	EA	0		0	0	48660	0	0	48660
							\$0	\$0	\$48,660	\$0	\$0	\$48,660
	DUST COLLECTOR (55,000 CFM)	<i>U.C. per EA</i>	3.00	EA	0		0	0	68000	0	0	68000
							\$0	\$0	\$204,000	\$0	\$0	\$204,000
	BLOWER 300 HP (110,000 CFM)	<i>U.C. per EA</i>	2.00	EA	0		0	0	137000	0	0	137000
							\$0	\$0	\$274,000	\$0	\$0	\$274,000
	BLOWER 150 HP (37,000 CFM)	<i>U.C. per EA</i>	2.00	EA	0		0	0	26633	0	0	26633
							\$0	\$0	\$53,266	\$0	\$0	\$53,266
	VFD FOR 150 HP FAN MOTORS	<i>U.C. per EA</i>	2.00	EA	0		0	0	22400	0	0	22400
							\$0	\$0	\$44,800	\$0	\$0	\$44,800
	VFD FOR 300 HP FAN MOTORS	<i>U.C. per EA</i>	2.00	EA	0		0	0	33300	0	0	33300
							\$0	\$0	\$66,600	\$0	\$0	\$66,600
	RFS PENTHOUSE (37,000 CFM)	<i>U.C. per EA</i>	1.00	EA	0		0	0	10000	0	0	10000
							\$0	\$0	\$10,000	\$0	\$0	\$10,000
	HEPA HOUSINGS 3H X 5W	<i>U.C. per EA</i>	2.00	EA	0		0	0	135000	0	0	135000
							\$0	\$0	\$270,000	\$0	\$0	\$270,000
	HEPA HOUSINGS 4H X 6W	<i>U.C. per EA</i>	2.00	EA	0		0	0	360000	0	0	360000
							\$0	\$0	\$720,000	\$0	\$0	\$720,000
	HEPA HOUSINGS 3H X 6W	<i>U.C. per EA</i>	1.00	EA	0		0	0	162000	0	0	162000
							\$0	\$0	\$162,000	\$0	\$0	\$162,000
	HEPA HOUSINGS DON/DOFT AREAS	<i>U.C. per EA</i>	4.00	EA	0		0	0	8000	0	0	8000
							\$0	\$0	\$32,000	\$0	\$0	\$32,000
	PLC CONTROL UNITS	<i>U.C. per EA</i>	2.00	EA	0		0	0	2500	0	0	2500
							\$0	\$0	\$5,000	\$0	\$0	\$5,000
	AIR COMPRESSOR (25HP)	<i>U.C. per EA</i>	1.00	EA	0		0	0	17500	0	0	17500
							\$0	\$0	\$17,500	\$0	\$0	\$17,500

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquipDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.10 HVAC EQUIPMENT-PROCUREMENT												
	DESSICANT DRYER/FILTER	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	12983 \$12,983	0 \$0	0 \$0	12983 \$12,983
	72" DIA. DAMPERS (LEAK PROOF- SPECIALTY SST)	<i>U.C. per EA</i>	10.00	EA	0		0 \$0	0 \$0	25000 \$250,000	0 \$0	0 \$0	25000 \$250,000
<hr/>												
	Subtotal						\$0	\$0	\$2,170,809	\$0	\$0	\$2,170,809
	Sales Tax						\$0	\$0	\$130,249	\$0	\$0	\$130,249
	INEEU Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$2,301,058
	Escalation						\$0	\$0	\$186,616	\$0	\$0	\$186,616
	Contingency						\$0	\$0	\$1,390,518	\$0	\$0	\$1,390,518
<hr/>												
---Total	3.2.10 HVAC EQUIPMENT-PROCUREMENT				0		\$0	\$0	\$3,878,191	\$0	\$0	\$3,878,191

3.2.11 CHILLER EQUIPMENT-PROCUREMENT

	150 TON PACKAGED CHILLER	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	150000 \$150,000	0 \$0	0 \$0	150000 \$150,000
	250 GALLON WATER TANK	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	5000 \$5,000	0 \$0	0 \$0	5000 \$5,000
	BOILER/WATER HEATER 3000 MBH	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	34000 \$34,000	0 \$0	0 \$0	34000 \$34,000
	5 HP PUMP	<i>U.C. per EA</i>	3.00	EA	0		0 \$0	0 \$0	4550 \$13,650	0 \$0	0 \$0	4550 \$13,650
	25 HP PUMP	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	6511 \$6,511	0 \$0	0 \$0	6511 \$6,511
	VFD FOR 5 HP PUMP	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	2810 \$2,810	0 \$0	0 \$0	2810 \$2,810

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.11 CHILLER EQUIPMENT-PROCUREMENT												
	PLC CONTROLS UNITS	<i>U.C. per EA</i>	1.00	EA	0		0	0	2500	0	0	2500
							\$0	\$0	\$2,500	\$0	\$0	\$2,500
	3-WAY CONTROL VALVES	<i>U.C. per EA</i>	5.00	EA	0		0	0	4000	0	0	4000
							\$0	\$0	\$20,000	\$0	\$0	\$20,000
	MANUAL CONTROLS VALVES	<i>U.C. per EA</i>	28.00	EA	0		0	0	1200	0	0	1200
							\$0	\$0	\$33,600	\$0	\$0	\$33,600
	HEATER COIL 300 MBH	<i>U.C. per EA</i>	2.00	EA	0		0	0	1000	0	0	1000
							\$0	\$0	\$2,000	\$0	\$0	\$2,000
	HEATER COIL 420 MBH	<i>U.C. per EA</i>	1.00	EA	0		0	0	1400	0	0	1400
							\$0	\$0	\$1,400	\$0	\$0	\$1,400
	HEATER COIL 1000 MBH	<i>U.C. per EA</i>	2.00	EA	0		0	0	3500	0	0	3500
							\$0	\$0	\$7,000	\$0	\$0	\$7,000
Subtotal							\$0	\$0	\$278,471	\$0	\$0	\$278,471
Sales Tax							\$0	\$0	\$16,708	\$0	\$0	\$16,708
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$295,179
Escalation							\$0	\$0	\$23,939	\$0	\$0	\$23,939
Contingency							\$0	\$0	\$178,375	\$0	\$0	\$178,375
—Total 3.2.11 CHILLER EQUIPMENT-PROCUREMENT					0		\$0	\$0	\$497,494	\$0	\$0	\$497,494

3.3 BBWI MATERIAL HANDLING FEE

	PROCUREMENT FEE	<i>U.C. per \$</i>	34,834,591.00	\$	0		0	0	0	0	0.12	0.72
							\$0	\$0	\$0	\$0	\$4,180,151	\$4,180,151

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.3 BBWI MATERIAL HANDLING FEE												
	G&A		U.C. per \$ 4,180,151.00	\$	0		0 \$0	0 \$0	0 \$0	0 \$0	0.38 \$1,588,457	0.38 \$1,588,457
Subtotal							\$0	\$0	\$0	\$0	\$5,768,608	\$5,768,608
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$5,768,600
Escalation							\$0	\$0	\$0	\$0	\$467,834	\$467,034
Contingency							\$0	\$0	\$0	\$0	\$3,485,942	\$3,485,942
-- Total 3.3 BBWI MATERIAL HANDLING FEE					0		\$0	\$0	\$0	\$0	\$9,722,384	\$9,722,304

4.1 CONSTRUCTION MANAGEMENT

	CONSTRUCTIONMANAGMENT		U.C. per \$ 96,817,741.00	\$	0		0 \$0	0 \$0	0 \$0	0 \$0	0.07 \$6,777,242	0.07 \$6,777,242
Subtotal							\$0	\$0	\$0	\$0	\$6,777,242	\$6,777,242
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$6,777,242
Escalation							\$0	\$0	\$0	\$0	\$905,440	\$905,440
Contingency							\$0	\$0	\$0	\$0	\$3,801,265	\$3,801,265
-- Total 4.1 CONSTRUCTION MANAGEMENT					0		\$0	\$0	\$0	\$0	\$11,403,947	\$11,403,947

4.2.01 GENERAL CONDITIONS

	SUPERVISION	GEN	U.C. per HRS 521,739.00	HRS	0.12 62,609	\$40.00 CN-SUPR	4.8 \$2,504,347	0 \$0	0 \$0	0 \$0	0 \$0	4.8 \$2,504,347
Memo: @ 12% of labor hrs. Allow 55% of subcontract price as labor. Assume a \$40/hr rate to arrive at estimated labor hours included in subcontracted work.												

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.01 GENERAL CONDITIONS												
	GEN		<i>U.C. per \$</i>				0	0	0	0.006	0	0.006
	Mobilization& Demobilization		21,341,140.00	\$	0	CN-SKWK	\$0	\$0	\$0	\$128,047	\$0	\$128,047
Memo: Mobilization/demobilization costs @ .6% of direct construction\$.												
	GEN		<i>U.C. per HRS</i>				0	4	0	0	0	4
	CONSTRUCTIONEQUIPMENT ALLOWANCE		521,739.00	HRS	0		\$0	\$2,086,956	\$0	\$0	\$0	\$2,086,956
Memo: @ \$2.50/LABOR HOUR.												
	GEN		<i>U.C. per \$</i>				0	0	0.04	0	0	0.04
	SMALL TOOLS & CONSUMABLES		21,341,140.00	\$	0		\$0	\$0	\$853,646	\$0	\$0	\$853,646
Memo: @ 4% of construction labor \$.												
	GEN		<i>U.C. per HRS</i>				0.08	\$31.58	2.526	0	0	2.526
	GENERAL CLEANUP		521,739.00	HRS	41,739	CN-LABR	\$1,318,121	\$0	\$0	\$0	\$0	\$1,318,121
Memo: @ 8% of construction labor hours												
	GEN		<i>U.C. per HRS</i>				0.05	\$34.52	1.726	0	0	1.726
	CONDUCT OF OPERATIONS/CONDUCT OF MAINTENANCE		521,739.00	HRS	26,087	CN-SKWK	\$900,522	\$0	\$0	\$0	\$0	\$900,522
Memo: @ 5% of labor hours.												
	GEN		<i>U.C. per wks</i>				40	\$70.00	2800	0	0	2800
	QA Manager		104.00	wks	4,160	CN-MGR	\$291,200	\$0	\$0	\$0	\$0	\$291,200
	GEN		<i>U.C. per wks</i>				40	\$20.00	800	0	0	800
	QA Clerk		104.00	wks	4,160	CN-CLRK	\$83,200	\$0	\$0	\$0	\$0	\$83,200
	GEN		<i>U.C. per wks</i>				120	\$40.00	4800	0	0	4800
	QC Inspector (ave 3 inspectors)		104.00	wks	12,480	CN-SUPR	\$499,200	\$0	\$0	\$0	\$0	\$499,200
	GEN		<i>U.C. per wks</i>				40		0	315.2	0	315.2
	QA/QC Pickup (1 pickup)		104.00	wks	4,160	00E2060	\$0	\$32,781	\$0	\$0	\$0	\$32,781
	GEN		<i>U.C. per Wk</i>				80	\$34.20	2736	1250	0	3986
	Craning Allowance - W/ Operator & Oiler		104.00	Wk	8,320	CN-ENGR	\$284,544	\$130,000	\$0	\$0	\$0	\$414,544

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.01 GENERAL CONDITIONS												
	GEN											
	CONSTRUCTION WAREHOUSE		15,000.00	SF	0		\$0	\$0	\$0	75	\$0	\$1,125,000
Memo: Based on Means Facility Cost manual adjusted by our Nine-Block Matrix factors assuming a #6 or 7 on the Matrix.												
Subtotal							\$5,881,134	\$2,249,737	\$853,646	\$1,253,047	\$0	\$10,237,563
Sales Tax							\$0	\$0	\$51,219	\$0	\$0	\$51,219
INEEL/Subcontractor Overheads		29.03%					\$1,707,293	\$653,099	\$262,682	\$363,759	\$0	\$2,986,833
Subtotal Estimate												\$13,275,616
Escalation							\$1,013,814	\$387,819	\$155,984	\$216,005	\$0	\$1,773,622
Contingency							\$4,256,684	\$1,628,329	\$654,928	\$906,938	\$0	\$7,446,879
— Total 4.2.01 GENERAL CONDITIONS					159,555		\$12,858,925	\$4,918,983	\$1,978,459	\$2,739,750	\$0	\$22,496,117

4.2.02.01.01 Demo Lift Station Concrete

00E1012	GEN	U.C. per hr			1		0	91.41	0	0	0	91.41
Cat 330 1.75cy Hoe			80.00	hr	80	00E1012	\$0	\$7,313	\$0	\$0	\$0	\$7,313
00E2010	GEN	U.C. per hr			2		0	62.9	0	0	0	62.9
12 cy End Dump			80.00	hr	160	00E2010	\$0	\$5,032	\$0	\$0	\$0	\$5,032
CN-EQHV	GEN	U.C. per hr			1	\$35.49	35.49	0	0	0	0	35.49
Equipment Operators, Crane Or Shovel			80.00	hr	80	CN-EQHV	\$2,839	\$0	\$0	\$0	\$0	52,839
CN-TRHV	GEN	U.C. per hr			2	\$33.48	66.96	0	0	0	0	66.96
Truck Drivers, Heavy			80.00	hr	160	CN-TRHV	\$5,357	\$0	\$0	\$0	\$0	\$5,357

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.01.01 Demo Lift Station Concrete												
CN-LABE	GEN	<i>U.C. per hr</i>			2	\$32.44						
	LABORER EXCAVATION, BACKFILL, FOUNDATIONS, TRENCHES		80.00	hr	160	CN-LABE	\$5,190	\$0	\$0	\$0	\$0	\$5,190
Subtotal							\$13,386	\$12,345	\$0	\$0	\$0	\$25,731
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$3,886	\$3,584	\$0	\$0	\$0	\$7,470
Subtotal Estimate												\$33,201
Escalation							\$2,308	\$2,128	\$0	\$0	\$0	\$4,436
Contingency							\$9,688	\$8,934	\$0	\$0	\$0	\$18,623
---Total 4.2.02.01.01.01 Demo Lift Station Concrete					400		\$29,268	\$26,991	\$0	\$0	\$0	\$56,259

4.2.02.01.01.02 Demo Lift Station Electrical

00E1310	ELEC	<i>U.C. per hr</i>			1		0	68.68	0	0	0	68.68
	Grove RT522 20 tn Hydraulic Crane		10.00	hr	10	00E1310	\$0	\$687	\$0	\$0	\$0	\$687
CN-EQHV	ELEC	<i>U.C. per hr</i>			1	\$35.49		0	0	0	0	35.49
	Equipment Operators, Crane Or Shovel		10.00	hr	10	CN-EQHV	\$355	\$0	\$0	\$0	\$0	\$355
00E2040	ELEC	<i>U.C. per hr</i>			1		0	11.08	0	0	0	11.08
	15000lb GVW Flatbed		10.00	hr	10	00E2040	\$0	\$111	\$0	\$0	\$0	\$111
CN-TRHV	ELEC	<i>U.C. per hr</i>			1	\$33.48		0	0	0	0	33.48
	Truck Drivers, Heavy		10.00	hr	10	CN-TRHV	\$335	\$0	\$0	\$0	\$0	\$335
00E2060	ELEC	<i>U.C. per hr</i>			1		0	7.88	0	0	0	7.88
	3/4 tn 4x4 Pickup		40.00	hr	40	00E2060	\$0	\$315	\$0	\$0	\$0	\$315

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.01.02 Demo Lift Station Electrical</u>												
CN-ELEC	ELEC	<i>U.C. par hr</i>			2	\$35.89	71.78	0	0	0	0	71.78
Electricians			40.00	hr	80	CN-ELEC	\$2,871	\$0	\$0	\$0	\$0	\$2,871
Subtotal							\$3,561	\$1,113	\$0	\$0	\$0	\$4,674
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$1,713	\$535	\$0	\$0	\$0	\$2,248
Subtotal Estimate												\$6,922
Escalation							\$705	\$220	\$0	\$0	\$0	\$925
Contingency							\$2,958	\$924	\$0	\$0	\$0	\$3,883
— Total 4.2.02.01.01.02 Demo Lift Station Electrical					100		\$8,937	\$2,793	\$0	\$0	\$0	\$11,729

4.2.02.01.01.03 Demo Fire Pipe in Berm

00E1012	GEN	<i>U.C. par hr</i>			1		0	91.41	0	0	0	91.41
Cat 330 1.75cy Hoe			20.00	hr	20	00E1012	\$0	\$1,828	\$0	\$0	\$0	\$1,828
00E2010	GEN	<i>U.C. par hr</i>			2		0	62.9	0	0	0	62.9
12 cy End Dump			20.00	hr	40	00E2010	\$0	\$1,258	\$0	\$0	\$0	\$1,258
CN-EQHV	GEN	<i>U.C. par hr</i>			1	\$35.49	35.49	0	0	0	0	35.49
Equipment Operators, Crane Or Shovel			20.00	hr	20	CN-EQHV	\$710	\$0	\$0	\$0	\$0	\$710
CN-TRHV	GEN	<i>U.C. par hr</i>			2	\$33.48	66.96	0	0	0	0	66.96
Truck Drivers, Heavy			20.00	hr	40	CN-TRHV	\$1,339	\$0	\$0	\$0	\$0	\$1,339

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.01.03 Demo Fire Pipe in Berm</u>												
CN-LABE	GEN	<i>U.C. per hr</i>			<i>2</i>	<i>\$32.44</i>						
	LABORER EXCAVATION, BACKFILL, FOUNDATIONS.		20.00	hr	40	CN-LABE	\$1,298	\$0	\$0	\$0	\$0	\$1,298
	TRENCHES											
Subtotal							\$3,347	\$3,086	\$0	\$0	\$0	\$6,433
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$972	\$896	\$0	\$0	\$0	\$1,867
Subtotal Estimate												\$8,300
Escalation							\$577	\$532	\$0	\$0	\$0	\$1,109
Contingency							\$2,422	\$2,234	\$0	\$0	\$0	\$4,656
--Total 4.2.02.01.01.03 Demo Fire Pipe in Berm					100		\$7,317	\$6,748	\$0	\$0	\$0	\$14,065

4.2.02.01.01.04 Excavate New Basin

00E1012	GEN	<i>U.C. per hr</i>			<i>1</i>		<i>0</i>	<i>91.41</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>91.41</i>
	Cat 330 1.75cy Hoe		60.00	hr	60	00E1012	\$0	\$5,485	\$0	\$0	\$0	\$5,485
CN-EQHV	GEN	<i>U.C. per hr</i>			<i>1</i>	<i>\$35.49</i>		<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>35.49</i>
	Equipment Operators, Crane Or Shovel		60.00	hr	60	CN-EQHV	\$2,129	\$0	\$0	\$0	\$0	\$2,129
00E2010	GEN	<i>U.C. per hr</i>			<i>2</i>		<i>0</i>	<i>62.9</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>62.9</i>
	12 cy End Dump		60.00	hr	120	00E2010	\$0	\$3,774	\$0	\$0	\$0	\$3,774

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project * Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.01.04 Excavate New Basin</u>												
CN-TRHV	Truck Drivers, Heavy	GEN	U.C. per hr	60.00	hr	2	\$33.48	66.96	0	0	0	66.96
						120	CN-TRHV	\$4,018	\$0	\$0	\$0	\$4,018
Subtotal								\$6,147	\$9,259	\$0	\$0	\$15,406
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							29.03%	\$1,784	\$2,688	\$0	\$0	\$4,472
Subtotal Estimate												\$19,878
Escalation								\$1,060	\$1,596	\$0	\$0	\$2,656
Contingency								\$4,449	\$6,701	\$0	\$0	\$11,150
--Total 4.2.02.01.01.04 Excavate New Basin					180			\$13,440	\$20,243	\$0	\$0	\$33,683

4.2.02.01.01.05 Relocate North Berm

00E1012	Cat 330 1.75 cy Hoe	GEN	U.C. per hr	240.00	hr	1		0	91.41	0	0	91.41
						240	00E1012	\$0	\$21,938	\$0	\$0	\$21,938
00E0610	Cat 815 Sheepsfoot	GEN	U.C. per hr	240.00	hr	1		0	75.65	0	0	75.65
						240	00E0610	\$0	\$18,156	\$0	\$0	\$18,156
00E0962	Cat D7 Dozer	GEN	U.C. per hr	240.00	hr	1		0	86.72	0	0	86.72
						240	00E0962	\$0	\$20,813	\$0	\$0	\$20,813
CN-EQHV	Equipment Operators, Crane Or Shovel	GEN	U.C. per hr	240.00	hr	3	\$35.49	106.47	0	0	0	106.47
						720	CN-EQHV	\$25,553	\$0	\$0	\$0	\$25,553
00E2010	12 cy End Dump	GEN	U.C. per hr	240.00	hr	2		0	62.9	0	0	62.9
						480	00E2010	\$0	\$15,096	\$0	\$0	\$15,096

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.01.05 Relocate North Berm												
CN-TRHV	Truck Drivers, Heavy	GEN	U.C. per hr		2	\$33.48	66.96	0	0	0	0	66.96
			240.00	hr	480	CN-TRHV	\$16,070	\$0	\$0	\$0	\$0	\$16,070
Subtotal							\$41,623	\$76,003	\$0	\$0	\$0	\$117,626
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$12,083	\$22,064	\$0	\$0	\$0	\$34,147
Subtotal Estimate												\$151,773
Escalation							\$7,175	\$13,102	\$0	\$0	\$0	\$20,277
Contingency							\$30,125	\$55,007	\$0	\$0	\$0	\$85,131
---Total	4.2.02.01.01.05 Relocate North Berm				1,200		\$91,006	\$166,176	\$0	\$0	\$0	\$257,182
4.2.02.01.01.06 Ex & Backfill Discharge Pipe												
00E1012	Cat 330 1.75cy Hoe	GEN	U.C. per hr		1		0	91.41	0	0	0	91.41
			30.00	hr	30	00E1012	\$0	\$2,742	\$0	\$0	\$0	\$2,742
00E0610	Cat 815 Sheepsfoot	GEN	U.C. per hr		1		0	75.65	0	0	0	75.65
			30.00	hr	30	00E0610	\$0	\$2,270	\$0	\$0	\$0	\$2,270
CN-EQHV	Equipment Operators, Crane Or Shovel	GEN	U.C. per hr		2	\$35.49	70.98	0	0	0	0	70.98
			30.00	hr	60	CN-EQHV	\$2,129	\$0	\$0	\$0	\$0	\$2,129
Subtotal							\$2,129	\$5,012	\$0	\$0	\$0	\$7,141
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$618	\$1,455	\$0	\$0	\$0	\$2,073
Subtotal Estimate												\$9,214
Escalation							\$367	\$864	\$0	\$0	\$0	\$1,231
Contingency							\$1,541	\$3,627	\$0	\$0	\$0	\$5,168
---Total	4.2.02.01.01.06 Ex & Backfill Discharge Pipe				60		\$4,656	\$10,958	\$0	\$0	\$0	\$15,614

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.02.01 Concrete Lift Station												
	Fine Grade	GEN	<i>U.C. per sf</i>		<i>0.1</i>	<i>\$31.58</i>	<i>3.158</i>	<i>0.02</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>3.178</i>
			80.00	sf	8	CN-LABR	\$253	\$2	\$0	\$0	\$0	\$254
	Form & Strip	GEN	<i>U.C. per sf</i>		<i>0.2</i>	<i>\$37.16</i>	<i>7.432</i>	<i>1.35</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>8.782</i>
			720.00	sf	144	CN-CARC	\$5,351	\$972	\$0	\$0	\$0	\$6,323
	Place Rebar	GEN	<i>U.C. per lb</i>		<i>0.012</i>	<i>\$43.50</i>	<i>0.522</i>	<i>0.05</i>	<i>0.35</i>	<i>0</i>	<i>0</i>	<i>0.922</i>
			1,440.00	lb	17	CN-IRON	\$752	\$72	\$504	\$0	\$0	\$1,328
	Place Concrete	GEN	<i>U.C. per cy</i>		<i>0.5</i>	<i>\$31.58</i>	<i>15.79</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>0</i>	<i>115.79</i>
			12.00	cy	6	CN-LABR	\$189	\$0	\$1,200	\$0	\$0	\$1,389
	Screed Concrete	GEN	<i>U.C. per sf</i>		<i>0.006</i>	<i>531.58</i>	<i>0.19</i>	<i>0.02</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.21</i>
			160.00	sf	1	CN-LABR	\$30	\$3	\$0	\$0	\$0	\$34
	Trowel Concrete	GEN	<i>U.C. per sf</i>		<i>0.015</i>	<i>531.58</i>	<i>0.474</i>	<i>0.08</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.554</i>
			160.00	sf	2	CN-LABR	\$76	\$13	\$0	\$0	\$0	\$89
	Cure Concrete	GEN	<i>U.C. per sf</i>		<i>0.01</i>	<i>\$31.58</i>	<i>0.316</i>	<i>0.06</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.376</i>
			880.00	sf	9	CN-LABR	\$270	\$53	\$0	\$0	\$0	\$331
	Embeds	GEN	<i>U.C. per lb</i>		<i>0.08</i>	<i>\$37.16</i>	<i>2.973</i>	<i>0</i>	<i>3</i>	<i>0</i>	<i>0</i>	<i>5.973</i>
			1,000.00	lb	80	CN-CARC	\$2,973	\$0	\$3,000	\$0	\$0	\$5,973
Subtotal							\$9,902	\$1,114	\$4,704	\$0	\$0	\$15,720
Sales Tax							\$0	\$0	\$282	\$0	\$0	\$282
INEEL/Subcontractor Overheads							29.03%	\$2,874	\$324	\$1,448	\$0	\$4,645
Subtotal Estimate												\$20,648
Escalation							\$1,707	\$192	\$860	\$0	\$0	\$2,759
Contingency							\$7,166	\$807	\$3,609	\$0	\$0	\$11,582
--Total 4.2.02.01.02.01 Concrete Lift Station					267		\$21,649	\$2,437	\$10,902	\$0	\$0	\$34,988

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project" Option 3
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
Prepared By: **SNW/RDA**
Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.02.02Ductbank Concrete												
	Form & Strip	GEN			<i>U.C. persf</i>							
			200.00	sf	0.18 36	\$37.16 CN-CARC	6.689 \$1,338	1.35 \$270	0 \$0	0 \$0	0 \$0	8.039 \$1,608
	Place Rebar	GEN			<i>U.C. per lb</i>							
			420.00	lb	0.012 5	\$43.50 CN-IRON	0.522 \$21.9	0.05 \$21	0.35 \$1 47	0 \$0	0 \$0	0.922 \$387
	Place Concrete	GEN			<i>U.C. percy</i>							
			6.00	cy	2 12	\$31.58 CN-LABR	63.16 \$379	0 \$0	100 \$600	0 \$0	0 \$0	163.16 \$979
Subtotal							\$1,936	\$291	\$747	\$0	\$0	\$2,974
Sales Tax							\$0	\$0	\$45	\$0	\$0	\$45
INEEL/Subcontractor Overheads							\$562	\$84	\$230	\$0	\$0	\$876
Subtotal Estimate												\$3,895
Escalation							\$334	\$50	\$1 36	\$0	\$0	\$520
Continaency							\$1,401	\$211	\$573	\$0	\$0	\$2,185
--Total 4.2.02.01.02.02Ductbank Concrete					53		\$4,233	\$636	\$1,731	\$0	\$0	\$6,600

4.2.02.01.05METALS

	Grating	STEEL			<i>U.C. persf</i>							
			40.00	sf	0.3 12	\$43.50 CN-IRON	13.05 \$522	0 \$0	5 \$200	0 \$0	0 \$0	18.05 \$722

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.05 METALS</u>												
	Gates	STEEL										
		<i>U.C. per ea</i>										
			2.00	ea	15 30	\$43.50 CN-IRON	652.5 \$1,305	0 \$0	1000 \$2,000	0 \$0	0 \$0	1652.5 \$3,305
Subtotal							\$1,827	\$0	\$2,200	\$0	\$0	\$4,027
Sales Tax							\$0	\$0	\$132	\$0	\$0	\$132
INEEL Subcontractor Overheads							\$766	\$0	\$978	\$0	\$0	\$1,744
Subtotal Estimate												\$5,903
Escalation							\$346	\$0	\$442	\$0	\$0	\$789
Contingency							\$1,455	\$0	\$1,857	\$0	\$0	\$3,311
— Total 4.2.02.01.05 METALS					42		\$4,394	\$0	\$5,609	\$0	\$0	\$10,003

4.2.02.01.15 MECHANICAL

	6 Pipe	PIPE										
		<i>U.C. per lf</i>										
			20.00	lf	0.75 15	\$39.33 CN-PIPE	29.498 \$590	0 \$0	30 \$600	0 \$0	0 \$0	59.498 \$1,190
	Pipe Supports	PIPE										
		<i>U.C. per ea</i>										
			10.00	ea	2 20	\$39.33 CN-PIPE	78.66 \$787	0 \$0	10 \$100	0 \$0	0 \$0	88.66 \$887
	Totalizer	PIPE										
		<i>U.C. per ea</i>										
			1.00	ea	2 2	\$39.33 CN-PIPE	78.66 \$79	0 \$0	2000 \$2,000	0 \$0	0 \$0	2078.66 \$2,079

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-17**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.15 MECHANICAL</u>												
	PIPE	<i>U.C. per lf</i>			<i>0.3</i>	<i>\$39.33</i>	<i>11.799</i>	<i>0</i>	<i>14</i>	<i>0</i>	<i>0</i>	<i>25.799</i>
	3 0 CMP Discharge Pipe		400.00	lf	120	CN-PIPE	\$4,720	\$0	\$5,600	\$0	\$0	\$10,320
Subtotal							\$6,175	\$0	\$8,300	\$0	\$0	\$14,475
Sales Tax							\$0	\$0	\$498	\$0	\$0	\$498
INEEUSubcontractorOverheads							\$2,970	\$0	\$4,232	\$0	\$0	\$7,203
Subtotal Estimate												\$22,175
Escalation							\$1,222	\$0	\$1,741	\$0	\$0	\$2,963
Contingency							\$5,130	\$0	\$7,309	\$0	\$0	\$12,438
--Total 4.2.02.01.15 MECHANICAL					157		\$15,497	\$0	\$22,080	\$0	\$0	\$37,576

4.2.02.01.16.01 Switchgear & Transformers

	ELEC	<i>U.C. per Ea</i>			<i>2</i>	<i>\$35.89</i>	<i>71.78</i>	<i>0</i>	<i>550</i>	<i>0</i>	<i>0</i>	<i>621.78</i>
	Fused Disc Switch, 480 volt 3R disc		1.00	Ea	2	CN-ELEC	\$72	\$0	\$550	\$0	\$0	\$622
Memo: Panel pricing is based on GE Buy Log.												
Subtotal							\$72	\$0	\$550	\$0	\$0	\$622
Sales Tax							\$0	\$0	\$33	\$0	\$0	\$33
INEEUSubcontractorOverheads							\$35	\$0	\$280	\$0	\$0	\$315
Subtotal Estimate												\$970
Escalation							\$14	\$0	\$115	\$0	\$0	\$130
Contingency							\$60	\$0	\$484	\$0	\$0	\$544
—Total 4.2.02.01.16.01 Switchgear & Transformers					2		\$180	\$0	\$1,463	\$0	\$0	\$1,643

4.2.02.01.16.02 Raceways & Fittings

	ELEC	<i>U.C. per lf</i>			<i>0.15</i>	<i>\$35.89</i>	<i>5.384</i>	<i>0</i>	<i>1.35</i>	<i>0</i>	<i>0</i>	<i>6.734</i>
	1" GRS conduit		20.00	Lf	3	CN-ELEC	\$108	\$0	\$27	\$0	\$0	\$135
	ELEC	<i>U.C. per Ea</i>			<i>0.35</i>	<i>\$35.89</i>	<i>12.56</i>	<i>0</i>	<i>12</i>	<i>0</i>	<i>0</i>	<i>24.56</i>
	1" LB w/GASK and Cover		2.00	Ea	1	CN-ELEC	\$25	\$0	\$24	\$0	\$0	\$49

INEEL

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Estimating Services Department

Material Costs where applicable include Idaho State Sales Tax

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DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage 111 Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.16.02 Raceways & Fittings</u>												
1" LTF Conduit	ELEC	<i>U.C. per lf</i>	10.00	lf	0.2 2	<i>\$35.89</i> CN-ELEC	7.178 \$72	0 \$0	2.5 \$25	0 \$0	0 \$0	9.678 \$97
2" rigid conduit	ELEC	<i>U.C. per Lf</i>	200.00	Lf	0.1 20	<i>\$35.89</i> CN-ELEC	3.589 \$718	0 \$0	2.75 \$550	0 \$0	0 \$0	6.339 \$1,268
2" spacers	ELEC	<i>U.C. per Ea</i>	20.00	Ea	0.1 2	<i>\$35.89</i> CN-ELEC	3.589 \$72	0 \$0	1 \$20	0 \$0	0 \$0	4.589 \$92
P-1000 Unistrut	ELEC	<i>U.C. per Lf</i>	20.00	Lf	0.12 2	<i>\$35.89</i> CN-ELEC	4.307 \$86	0 \$0	3.5 \$70	0 \$0	0 \$0	7.807 \$156
P-1000 Unistrut fittings, allowance	ELEC	<i>U.C. per Ls</i>	1.00	Ls	4 4	<i>\$35.89</i> CN-ELEC	143.56 \$144	0 \$0	50 \$50	0 \$0	0 \$0	193.56 \$194
Subtotal							\$1,224	\$0	\$766	\$0	\$0	\$1,990
Sales Tax							\$0	\$0	\$46	\$0	\$0	\$46
INEEL/Subcontractor Overheads		48.10%					\$589	\$0	\$391	\$0	\$0	\$979
Subtotal Estimate												\$3,015
Escalation							\$242	\$0	\$161	\$0	\$0	\$403
Contingency							\$1,017	\$0	\$675	\$0	\$0	\$1,691
---Total 4.2.02.01.16.02 Raceways & Fittings					34		\$3,071	\$0	\$2,038	\$0	\$0	\$5,109

4.2.02.01.16.03 Conductors & Grounding

#2 bare copper	ELEC	<i>U.C. per Lf</i>	250.00	Lf	0.02 5	<i>\$35.89</i> CN-ELEC	0.718 \$179	0 \$0	0.35 \$88	0 \$0	0 \$0	1.068 \$267
#8 thhn copper wire	ELEC	<i>U.C. per Lf</i>	1,000.00	Lf	0.012 12	<i>\$35.89</i> CN-ELEC	0.431 \$431	0 \$0	0.13 \$130	0 \$0	0 \$0	0.561 \$561
Allowance for jet-line, tru tape, pull rope	ELEC	<i>U.C. per Ls</i>	1.00	Ls	4 4	<i>\$35.89</i> CN-ELEC	143.56 \$144	0 \$0	50 \$50	0 \$0	0 \$0	193.56 \$194

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project" Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.16.03 Conductors & Grounding</u>												
	Terminations	ELEC	<i>U.C. per ea</i>									
			20.00	ea	0.25 5	\$35.89 CN-ELEC	8.973 \$179	0 \$0	0.5 \$10	0 \$0	0 \$0	9.473 \$189
Subtotal							\$933	\$0	\$278	\$0	\$0	\$1,211
Sales Tax							\$0	\$0	\$17	\$0	\$0	\$17
INEEUSubcontractorOverheads							449	\$0	141	\$0	\$0	590
Subtotal Estimate												\$1,818
Escalation							\$185	\$0	\$58	\$0	\$0	\$243
Contingency							\$775	\$0	\$244	\$0	\$0	\$1,020
--Total	4.2.02.01.16.03	Conductors & Grounding			26		\$2,342	\$0	\$738	\$0	\$0	\$3,080

4.2.02.01.16.04 Testing

	ELEC	U.C. per Ls		30	\$35.89	1076.7	0	0	0	0	1076.7
Testing of systems and equipment		1.00	Ls	30	CN-ELEC	\$1,077	\$0	\$0	\$0	\$0	\$1,077
Subtotal						\$1,077	\$0	\$0	\$0	\$0	\$1,077
Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads		48.10%				\$518	\$0	\$0	\$0	\$0	\$518
Subtotal Estimate											\$1,595
Escalation						\$213	\$0	\$0	\$0	\$0	\$213
Contingency						\$894	\$0	\$0	\$0	\$0	\$894
—Total	4.2.02.01.16.04	Testing		30		\$2,702	\$0	\$0	\$0	\$0	\$2,702

4.2.02.02.01 RFS EARTHWORK

	FOUNDATION EXCAVATION	DIRT	<i>U.C. per CY</i>	4,855.00	CY	0		0 \$0	0 \$0	0 \$0	3.51 \$17,041	0 \$0	3.51 \$17,041
	FOUNDATION BACKFILL& COMPACT	DIRT	<i>U.C. per CY</i>	4,456.00	CY	0		0 \$0	0 \$0	0 \$0	13.87 \$61,805	0 \$0	13.87 \$61,805

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.02.01 RFS EARTHWORK												
	DIRT	<i>U.C. per CY</i>										
	OVERBURDEN STAGING PIT EXCAVATION		3,513.00	CY	0		\$0	\$0	\$0	3.51	\$0	\$12,331
	DIRT	<i>U.C. per CY</i>										
	PIT BACKFILL & COMPACT		597.00	CY	0		\$0	\$0	\$0	13.87	\$0	\$8,280
	DIRT	<i>U.C. per CY</i>										
	SPREAD EXCESS EXCAVATED MATERIAL		3,315.00	CY	0		\$0	\$0	\$0	1.8	\$0	\$5,967
	PILING	<i>U.C. per SF</i>										
	SHEET PILING		7,875.00	SF	0.095 748	\$37.43 B40	3.555 \$28,000	4.674 \$36,804	15.38 \$121,118	0 \$0	0 \$0	23.609 \$185,921
	PILING	<i>U.C. per LS</i>										
	SHEET PILING - MOB/DEMOB		1.00	LS	142	\$37.43 B40 MOB	5314.53 \$5,315	4881.69 \$4,882	0 \$0	0 \$0	0 \$0	10196.22 \$10,196
Subtotal							\$33,314	\$41,686	\$121,118	\$105,424	\$0	5301,541
Sales Tax							\$0	\$0	\$7,267	\$0	\$0	\$7,267
INEEUSubcontractorOverheads							\$13,970	\$17,480	\$53,835	\$44,207	\$0	\$129,493
Subtotal Estimate												\$438,301
Escalation							\$6,317	\$7,905	\$24,345	\$19,991	\$0	\$58,557
Contingency							\$26,522	\$33,187	\$102,209	\$83,930	\$0	\$245,840
—Total 4.2.02.02.01 RFS EARTHWORK					890		\$80,123	\$100,257	\$308,774	\$253,552	\$0	\$742,705

4.2.02.02.02 WASH BAY EARTHWORK

	DIRT	<i>U.C. per CY</i>										
	FOUNDATION EXCAVATION		324.00	CY	0		\$0	\$0	\$0	3.51	\$0	\$1,137
	DIRT	<i>U.C. per CY</i>										
	FOUNDATION BACKFILL & COMPACT		119.00	CY	0		\$0	\$0	\$0	13.87	\$0	\$1,651

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.02.02 WASH BAY EARTHWORK</u>												
	DIRT	<i>U.C. per CY</i>					0	0	0	1.8	0	1.8
	SPREADEXCESSEXCAVATEDMATERIAL		205.00	CY	0		\$0	\$0	\$0	\$369	\$0	\$369
Subtotal							\$0	\$0	\$0	\$3,157	\$0	\$3,157
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$1,324	\$0	\$1,324
Subtotal Estimate												\$4,480
Escalation							\$0	\$0	\$0	\$599	\$0	\$599
Contingency							\$0	\$0	\$0	\$2,513	\$0	\$2,513
--Total 4.2.02.02.02 WASH BAY EARTHWORK					0		\$0	\$0	\$0	\$7,592	\$0	\$7,592
<u>4.2.02.02.04 MAIN SUPPORT BUILDING EARTHWORK</u>												
	DIRT	<i>U.C. per CY</i>					0	0	0	3.51	0	3.51
	FOUNDATIONEXCAVATION		1,938.00	CY	0		\$0	\$0	\$0	\$6,802	\$0	\$6,802
	DIRT	<i>U.C. per CY</i>					0	0	0	13.87	0	13.87
	FOUNDATION BACKFILL& COMPACT		205.00	CY	0		\$0	\$0	\$0	\$2,843	\$0	\$2,043
	DIRT	<i>U.C. per CY</i>					0	0	0	1.8	0	1.8
	SPREADEXCESSEXCAVATEDMATERIAL		1,733.00	CY	0		\$0	\$0	\$0	\$3,119	\$0	\$3,119
Subtotal							\$0	\$0	\$0	\$12,765	\$0	\$1 2,765
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$5,353	\$0	\$5,353
Subtotal Estimate												\$18,118
Escalation							\$0	\$0	\$0	\$2,421	\$0	\$2,421
Continaencv							\$0	\$0	\$0	\$10,163	\$0	\$10,163
--Total 4.2.02.02.04 MAIN SUPPORT BUILDING EARTHWORK					0		\$0	\$0	\$0	\$30,701	\$0	\$30,701

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.02.07 CHARACTERIZATION AIRLOCK EARTHWORK												
	FOUNDATION EXCAVATION	DIRT <i>U.C. per CY</i>	1,024.00	CY	0		\$0	\$0	\$0	3.51 \$3,594	0 \$0	3.51 \$3,594
	FOUNDATION BACKFILL & COMPACT	DIRT <i>U.C. per CY</i>	943.00	CY	0		\$0	\$0	\$0	13.87 \$13,079	0 \$0	13.87 \$13,079
	SPREAD EXCESS EXCAVATED MATERIAL	DIRT <i>U.C. per CY</i>	81.00	CY	0		\$0	\$0	\$0	1.8 \$146	0 \$0	1.8 \$146
Subtotal							\$0	\$0	\$0	\$16,819	\$0	\$16,819
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$7,053	\$0	\$7,053
Subtotal Estimate												\$23,072
Escalation							\$0	\$0	\$0	\$3,189	\$0	\$3,189
Contingency							\$0	\$0	\$0	\$13,390	\$0	\$13,390
---Total 4.2.02.02.07 CHARACTERIZATION AIRLOCK EARTHWORK					0		\$0	\$0	\$0	\$40,452	\$0	\$40,452

4.2.02.03 ROADWAYS & PAVING

4" ASPHALT PAVING	GEN <i>U.C. per TN</i>	1,283.00	TN	0		\$0	\$0	\$0	80 \$102,640	0 \$0	80 \$102,640
LEVELING COURSE/CRUSHED GRAVEL	GEN <i>U.C. per CYD</i>	1,082.00	CYD	0		\$0	\$0	\$0	35 \$37,870	0 \$0	35 \$37,870

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
Prepared By: **SNW/RDA**
Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.03 ROADWAYS& PAVING												
	PIT RUN FILL	GEN	U.C.per CYD				0	0	0	15	0	15
			2,100.00	CYD	0		\$0	\$0	\$0	\$31,500	\$0	\$31,500
Subtotal							\$0	\$0	\$0	\$172,010	\$0	\$172,010
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$49,935	\$0	\$49,935
Subtotal Estimate												\$221,945
Escalation							\$0	\$0	\$0	\$29,652	\$0	\$29,652
Contingency							\$0	\$0	\$0	\$124,491	\$0	\$124,491
--Total 4.2.02.03 ROADWAYS& PAVING					0		\$0	\$0	\$0	\$376,087	\$0	\$376,087

4.2.03.01 RFS CONCRETE

FOUNDATION WALLS	GEN	U.C. per CY	244.00	CY	0	0	0	0	430	0	430
						\$0	\$0	\$0	\$104,920	\$0	\$104,920
COLUMN FOOTINGS	GEN	U.C. per CY	155.00	CY	0	0	0	0	430	0	430
						\$0	\$0	\$0	\$66,650	\$0	\$66,650
EXISTING RAIL FDN. TOPPING	GEN	U.C. per CY	541.00	CY	0	0	0	0	430	0	430
						\$0	\$0	\$0	\$232,630	\$0	\$232,630
FLOORS	GEN	U.C. per CY	541.00	CY	0	0	0	0	430	0	430
						\$0	\$0	\$0	\$232,630	\$0	\$232,630
AGV TRACK	GEN	U.C. per CY	577.00	CY	0	0	0	0	430	0	430
						\$0	\$0	\$0	\$248,110	\$0	\$248,110

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.03.01 RFS CONCRETE												
	OVERBURDEN STAGING PIT WALLS & BASE SLAB	GEN	636.00	CY	0		0	0	0	430	0	430
		U.C. per CY					\$0	\$0	\$0	\$273,480	\$0	\$273,480
	Subtotal						\$0	\$0	\$0	\$1,158,420	\$0	\$1,158,420
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	29.03%					\$0	\$0	\$0	\$336,289	\$0	\$336,289
	Subtotal Estimate											\$1,494,709
	Escalation						\$0	\$0	\$0	\$199,693	\$0	\$199,693
	Contingency						\$0	\$0	\$0	\$838,591	\$0	\$838,591
--Total 4.2.03.01 RFS CONCRETE					0		\$0	\$0	\$0	\$2,532,994	\$0	\$2,532,994
4.2.03.02 WASH BAY CONCRETE												
	BASIN FLOOR & WALLS	GEN	47.00	CY	0		0	0	0	430	0	430
		U.C. per CY					\$0	\$0	\$0	\$20,210	\$0	\$20,210
	Subtotal						\$0	\$0	\$0	\$20,210	\$0	\$20,210
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	29.03%					\$0	\$0	\$0	\$5,867	\$0	\$5,867
	Subtotal Estimate											\$26,077
	Escalation						\$0	\$0	\$0	\$3,484	\$0	\$3,484
	Contingency						\$0	\$0	\$0	\$14,630	\$0	\$14,630
—Total 4.2.03.02 WASH BAY CONCRETE					0		\$0	\$0	\$0	\$44,191	\$0	\$44,191
4.2.03.04 MAIN SUPPORT BUILDING CONCRETE												
	FLOOR & FOUNDATION WALLS	GEN	955.00	CY	0		0	0	0	430	0	430
		U.C. per CY					\$0	\$0	\$0	\$410,650	\$0	\$410,650

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.03.04 MAIN SUPPORT BUILDING CONCRETE</u>												
	Subtotal							\$0	\$0	\$0	\$410,650	\$410,650
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	29.03%						\$0	\$0	\$0	\$119,212	\$119,212
	Subtotal Estimate											\$529,862
	Escalation							\$0	\$0	\$0	\$70,790	\$70,790
	Contingency							\$0	\$0	\$0	\$297,273	\$297,273
—Total	4.2.03.04 MAIN SUPPORT BUILDING CONCRETE				0			\$0	\$0	\$0	\$897,925	\$897,925

4.2.03.07 CHARACTERIZATION AIRLOCK CONCRETE

	GEN	U.C. per CY						0	0	0	430	430
	FLOOR & FOUNDATION WALLS		159.00	CY	0			\$0	\$0	\$0	\$68,370	\$68,370
	Subtotal							\$0	\$0	\$0	\$68,370	\$68,370
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	29.03%						\$0	\$0	\$0	\$19,848	\$19,848
	Subtotal Estimate											\$88,218
	Escalation							\$0	\$0	\$0	\$11,786	\$11,786
	Contingency							\$0	\$0	\$0	\$49,494	\$49,494
—Total	4.2.03.07 CHARACTERIZATION AIRLOCK CONCRETE				0			\$0	\$0	\$0	\$149,497	\$149,497

4.2.05.01.01 RFS STRUCTURAL STEEL

	STEEL	U.C. per TONS			102	\$42.71	435.676	241.57	1668	0	0	2345.246
	STRUCTURAL STEEL & TRUSS		1,718.00	TONS	17,524	STEEL1	\$748,491	\$415,017	\$2,865,624	\$0	\$0	\$4,029,133

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.01.01 RFS STRUCTURAL STEEL												
	Subtotal						\$748,491	\$415,017	\$2,865,624	\$0	\$0	\$4,029,133
	Sales Tax						\$0	\$0	\$171,937	\$0	\$0	\$171,937
	INEEUSubcontractorOverheads	41.93%					\$313,865	\$174,029	\$1,273,741	\$0	\$0	\$1,761,635
	Subtotal Estimate											\$5,962,705
	Escalation						\$141,931	\$78,697	\$575,990	\$0	\$0	\$796,617
	Contingency						\$595,890	\$330,404	\$2,418,266	\$0	\$0	\$3,344,560
<hr/>												
--Total	4.2.05.01.01 RFS STRUCTURAL STEEL				17,524		\$1,800,177	\$998,147	\$7,305,558	\$0	\$0	\$10,103,882
 4.2.05.01.02 RFS MISC. METALS												
055207800020	STEEL	<i>U.C per L.F.</i>			<i>0.125</i>	<i>\$43.62</i>	<i>5.452</i>	<i>0.346</i>	<i>14.4</i>	<i>0</i>	<i>0</i>	<i>20.199</i>
	Railings, industrial welded, 2 rail, 3'-6" high, 1-1/2" pipe		12,866.00	L.F	1.608	E4	\$70,152	\$4,453	\$185,270	\$0	\$0	\$259,875
055145000020	STEEL	<i>U.C. per V.L.F.</i>			<i>0.64</i>	<i>\$43.62</i>	<i>27.917</i>	<i>1.772</i>	<i>55.5</i>	<i>0</i>	<i>0</i>	<i>85.189</i>
	Ladder, steel, 2 0 wide, bolted to concrete, with cage		286.00	V.L.F.	183	E4	\$7,984	\$507	\$15,873	\$0	\$0	\$24,364
055303400474	STEEL	<i>U.C. per S.F.</i>			<i>0.093</i>	<i>\$41.67</i>	<i>3.875</i>	<i>2.36</i>	<i>11.2</i>	<i>0</i>	<i>0</i>	<i>17.435</i>
	Floor grtg, plat, cross bars @ 2 o.c., 1-1/4" x 3/16", over 300 S.F.		21,112.00	S.F.	1.963	E2	\$81,813	\$49,822	\$236,454	\$0	\$0	\$368,089
055177000100	STEEL	<i>U.C per Riser</i>			<i>1.067</i>	<i>\$43.62</i>	<i>46.543</i>	<i>2.954</i>	<i>137</i>	<i>0</i>	<i>0</i>	<i>186.497</i>
	Stair, stl, sfty nsg, stl stringers, grtg trd, pipe rlng, 4'-0 wide		72.00	Riser	77	E4	\$3,351	\$213	\$9,864	\$0	\$0	\$13,428
	STEEL	<i>U.C. per EA</i>					<i>0</i>	<i>0</i>	<i>0</i>	<i>15000</i>	<i>0</i>	<i>15000</i>
	EMERGENCY EXIT STAIRWAYS-ALLOWANCE		6.00	EA	0	E4	\$0	\$0	\$0	\$90,000	\$0	\$90,000

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL		
4.2.05.01.02RFS MISC. METALS														
	HEPA FILTER PLATFORMS	STEEL	U.C. per LBS	900.00	LBS	0.013 11	\$43.62 E4	0.545 \$491	0.035 \$31	3 \$2,700	0 \$0	0 \$0	3.58 \$3,222	
Subtotal								\$163,791	\$55,025	\$450,162	\$90,000	\$0	\$758,978	
Sales Tax								\$0	\$0	\$27,010	\$0	\$0	\$27,010	
INEEUSubcontractorOverheads								41.93%	\$68,682	\$23,074	\$200,092	\$37,740	\$0	\$329,588
Subtotal Estimate													\$1,115,575	
Escalation								\$31,058	\$10,434	\$90,482	\$17,066	\$0	\$149,041	
Contingency								\$130,397	\$43,807	\$379,886	\$71,651	\$0	\$625,741	
---Total 4.2.05.01.02RFS MISC. METALS					3,843		\$393,928	\$132,340	\$1,147,632	\$216,457	\$0	\$1,890,357		
4.2.05.02WASH BAY METALS														
	HD SST GRATING FLOOR	STEEL	U.C. per SF	850.00	SF	0.26 221	\$43.50 CN-IRON	11.31 \$9,614	6.41 \$5,449	30.75 \$26,138	0 \$0	0 \$0	48.47 \$41,200	
	SST GRATING SUPPORT MEMBERS	STEEL	U.C. per TON	4.25	TON	20 85	\$43.50 CN-IRON	870 \$3,698	56 \$238	6000 \$25,500	0 \$0	0 \$0	6926 \$29,436	
	BASIN SST LINER	STEEL	U.C. per SF	1,335.00	SF	2 2,670	\$43.62 E4	87.24 \$116,465	5.537 \$7,393	21 \$28,035	0 \$0	0 \$0	113.777 \$151,893	
Subtotal								\$129,776	\$13,079	\$79,673	\$0	\$0	522,528	
Sales Tax								\$0	\$0	\$4,780	\$0	\$0	\$4,780	
INEEUSubcontractorOverheads								41.93%	\$54,419	\$5,484	\$35,414	\$0	\$0	\$95,317
Subtotal Estimate													\$322,626	
Escalation								\$24,609	\$2,480	\$16,014	\$0	\$0	\$43,103	
Contingency								\$103,318	\$10,413	\$67,235	\$0	\$0	\$180,965	
---Total 4.2.05.02WASH BAY METALS					2,976		\$312,122	\$31,456	\$203,115	\$0	\$0	\$546,693		

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.05.03 CLEAN TRANSFER AIRLOCK METALS</u>												
	STEEL	<i>U.C. per SF</i>			2	\$43.62	87.24	5.537	21	0	0	113.777
	STAINLESS FLOOR LINER		730.00	SF	1,460	E4	\$63,685	\$4,042	\$15,330	\$0	\$0	\$83,058
Subtotal							\$63,685	\$4,042	\$15,330	\$0	\$0	\$83,058
Sales Tax							\$0	\$0	\$920	\$0	\$0	\$920
INEEUSubcontractorOverheads							\$26,705	\$1,695	\$6,814	\$0	\$0	\$35,214
Subtotal Estimate							\$12,076	\$767	\$3,081	\$0	\$0	\$119,192
Escalation							\$50,701	\$3,218	\$12,937	\$0	\$0	\$66,856
Contingency												
--Total 4.2.05.03 CLEAN TRANSFER AIRLOCK METALS					1,460		\$153,168	\$9,722	\$39,082	\$0	\$0	\$201,972
<u>4.2.05.04 MAIN SUPPORT BUILDING METALS</u>												
	STEEL	<i>U.C. per SF</i>			2	\$43.62	87.24	5.538	21	0	0	113.778
	GLOVEBOX STAINLESS FLOOR LINER		1,400.00	SF	2,800	E4	\$122,136	\$7,753	\$29,400	\$0	\$0	\$159,289
	STEEL	<i>U.C. per TON</i>			70.2	\$42.71	435.676	247.57	1668	0	0	2345.246
	PARTION WALL SUPPORT		60.00	TON	612	STEEL1	\$26,141	\$14,494	\$100,080	\$0	\$0	\$140,715
Memo: Allow 3.67 lbs/sf of wall area for support steel. Assume necessary due to 24' height of walls.												
	STEEL	<i>U.C. per EA</i>			9	\$42.71	384.42	213.15	770	0	0	1367.57
	STAIRS/LANDINGS OVER RAIL FOUNDATION		6.00	EA	54	STEEL1	\$2,307	\$1,279	\$4,620	\$0	\$0	\$8,205
Subtotal							\$150,583	\$23,526	\$134,100	\$0	\$0	\$308,209
Sales Tax							\$0	\$0	\$8,046	\$0	\$0	\$8,046
INEEUSubcontractorOverheads							\$63,144	\$9,865	\$59,606	\$0	\$0	\$132,615
Subtotal Estimate							\$28,554	\$4,461	\$26,954	\$0	\$0	\$448,870
Escalation							\$119,882	\$18,729	\$113,165	\$0	\$0	\$59,969
Contingency												\$251,777
--Total 4.2.05.04 MAIN SUPPORT BUILDING METALS					3,466		\$362,163	\$56,581	\$341,872	\$0	\$0	\$760,616

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.05 HVAC ROOM METALS												
	STEEL	<i>U.C. per SF</i>			<i>2</i>	<i>\$43.62</i>	<i>87.24</i>	<i>5.538</i>	<i>21</i>	<i>0</i>	<i>0</i>	<i>173.778</i>
	STAINLESS FLOOR LINER		6,500.00	SF	13,000	E4	\$567,060	\$35,994	\$1 36,500	\$0	\$0	\$739,554
	STEEL	<i>U.C. per LBS</i>			<i>0.013</i>	<i>\$43.62</i>	<i>0.545</i>	<i>0.035</i>	<i>3</i>	<i>0</i>	<i>0</i>	<i>3.58</i>
	HEPA FILTER PLATFORMS		4,350.00	LBS	54	E4	\$2,372	\$151	\$13,050	\$0	\$0	\$1 5,572
<hr/>												
	Subtotal						\$569,432	\$36,144	\$149,550	\$0	\$0	\$755,126
	Sales Tax						\$0	\$0	\$8,973	\$0	\$0	\$8,973
	INEEL/Subcontractor Overheads	41.93%					\$238,780	\$15,156	\$66,473	\$0	\$0	\$320,410
<hr/>												
	Subtotal Estimate											\$1,084,509
	Escalation						\$1 07,977	\$6,854	\$30,060	\$0	\$0	\$144,890
	Contingency						\$453,337	\$28,775	\$126,203	\$0	\$0	\$608,315
<hr/>												
---Total 4.2.05.05 HVAC ROOM METALS					13,054		\$1,369,525	\$86,930	\$381,259	\$0	\$0	\$1,837,715

4.2.05.06 PERSONNEL AIRLOCK METALS

	STEEL	<i>U.C. per SF</i>			<i>2</i>	<i>\$43.62</i>	<i>87.24</i>	<i>5.538</i>	<i>21</i>	<i>0</i>	<i>0</i>	<i>173.778</i>
	STAINLESS FLOOR LINER		850.00	SF	1,700	E4	\$74,154	\$4,707	\$17,850	\$0	\$0	\$96,711
<hr/>												
	Subtotal						\$74,154	\$4,707	\$17,850	\$0	\$0	\$96,711
	Sales Tax						\$0	\$0	\$1,071	\$0	\$0	\$1,071
	INEEL/Subcontractor Overheads	41.93%					\$31,095	\$1,974	\$7,934	\$0	\$0	\$41,003
<hr/>												
	Subtotal Estimate											\$1 38,785
	Escalation						\$14,061	\$893	\$3,588	\$0	\$0	\$1 8,542
	Contingency						\$59,036	\$3,747	\$15,063	\$0	\$0	\$77,846
<hr/>												
---Total 4.2.05.06 PERSONNEL AIRLOCK METALS					1,700		\$170,346	\$11,320	\$45,506	\$0	\$0	\$235,173

4.2.05.07 CHARACTERIZATION AIRLOCK METALS

	STEEL	<i>U.C. per SF</i>			<i>2</i>	<i>\$43.62</i>	<i>87.24</i>	<i>5.538</i>	<i>21</i>	<i>0</i>	<i>0</i>	<i>173.778</i>
	STAINLESS FLOOR LINER		4,200.00	SF	8,400	E4	\$366,408	\$23,258	\$88,200	\$0	\$0	\$477,866

INEEL

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Estimating Services Department

Material Costs where applicable include Idaho State Sales Tax

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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage 111 Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquipDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.07CHARACTERIZATIONAIRLOCK METALS												
	Subtotal						\$366,408	\$23,258	\$88,200	\$0	\$0	\$477,866
	Sales Tax						\$0	\$0	\$5,292	\$0	\$0	\$5,292
	INEELSubcontractorOverheads	41.93%					\$153,646	\$9,753	\$39,204	\$0	\$0	\$202,602
	Subtotal Estimate											\$685,760
	Escalation						\$69,479	\$4,410	\$17,728	\$0	\$0	\$91,618
	Contingency						\$291,705	\$18,516	\$74,431	\$0	\$0	\$384,652
--Total	4.2.05.07CHARACTERIZATIONAIRLOCK METALS				8,400		\$881,238	\$55,936	\$224,855	\$0	\$0	\$1,162,029

4.2.08.01RFS DOORS&WINDOWS

DOORS	GEN	U.C. per EA	98.00	EA	5.4	\$35.81	193.374	0	1314	0	0	1507.374
					529	CN-CARP	\$18,951	\$0	\$128,772	\$0	\$0	\$147,723
	Subtotal						\$18,951	\$0	\$128,772	\$0	\$0	\$147,723
	Sales Tax						\$0	\$0	\$7,726	\$0	\$0	\$7,726
	INEEL/Subcontractor Overheads	29.03%					\$5,501	\$0	\$39,625	\$0	\$0	\$45,127
	Subtotal Estimate											\$200,576
	Escalation						\$3,267	\$0	\$23,530	\$0	\$0	\$26,797
	Contingency						\$13,716	\$0	\$98,796	\$0	\$0	\$112,512
--Total	4.2.08.01 RFS DOORS& WINDOWS				529		\$41,435	\$0	\$298,450	\$0	\$0	\$339,885

4.2.08.04 MAIN SUPPORT BLDG. DOORS& WINDOWS

SPECIAL SINGLE DOORS	GEN	U.C. per EA	8.00	EA	0		0	0	0	9000	0	9000
							\$0	\$0	\$0	\$72,000	\$0	\$72,000

Memo: Special balancing doors to allow operation with negative pressure on one side.

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.08.04 MAIN SUPPORT BLDG. DOORS & WINDOWS												
	GEN	U.C. per EA										
	SPECIAL DOUBLE DOORS		13.00	EA	0		\$0	\$0	\$0	13000	\$0	13000
Memo: Special balancing doors to allow operation with negative pressure on one side.												
							\$0	\$0	\$0	\$169,000	\$0	\$169,000
Subtotal							\$0	\$0	\$0	\$241,000	\$0	\$241,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$69,962	\$0	\$69,962
Subtotal Estimate												\$310,962
Escalation							\$0	\$0	\$0	\$41,545	\$0	\$41,545
Contingency							\$0	\$0	\$0	\$174,433	\$0	\$174,433
—Total 4.2.08.04 MAIN SUPPORT BLDG. DOORS & WINDOWS					0		\$0	\$0	\$0	\$526,940	\$0	\$526,940
4.2.08.10 SPECIALTY DOORS												
Memo: Costs for the specialty airlock doors are based on vendor contact provided by the BBWI engineering group.												
	15' X 15' AIRLOCK CLEAN TRANSFER DOORS	U.C. per SET	2.00	SET	0		\$0	\$0	\$0	100000	\$0	100000
							\$0	\$0	\$0	\$200,000	\$0	\$200,000
	15' X 15' WASH BAY DOORS	U.C. per SET	2.00	SET	0		\$0	\$0	\$0	100000	\$0	100000
							\$0	\$0	\$0	\$200,000	\$0	\$200,000
	15' X 15' MAINTENTANCE GLOVE BOX DOORS	U.C. per SET	1.00	SET	0		\$0	\$0	\$0	100000	\$0	100000
							\$0	\$0	\$0	\$100,000	\$0	\$100,000
Subtotal							\$0	\$0	\$0	\$500,000	\$0	\$500,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$500,000
Escalation							\$0	\$0	\$0	\$66,800	\$0	\$66,800
Contingency							\$0	\$0	\$0	\$280,473	\$0	\$280,473
—Total 4.2.08.10 SPECIALTY DOORS					0		\$0	\$0	\$0	\$847,273	\$0	\$847,273

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **ProjectSupport**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.09.04MAIN SUPPORT BUILDING FINISHES												
092601005200	GEN	U.C. per S.F.			0.063	\$37.96	2.409	0	0.81	0	0	3.219
	Ptn wl, 5/8", gyp drwl, taped bs, wtr res, met std, NLB, 25Ga, 16" oc, 3-5/8"w		32,328.00	S.F	2,051	CARP	\$77,864	\$0	\$26,186	\$0	\$0	\$104,050
099109200840	PAINT	U.C. per S.F.			0.014	\$33.19	0.448	0	0.09	0	0	0.538
	Walls&clgs,conc,dry wl & plas,oil base,pnt 2 coats,sm fin,roller		64,656.00	S.F	873	PORD	\$28,970	\$0	\$5,819	\$0	\$0	\$34,789
Subtotal							\$1,06,834	\$0	\$32,005	\$0	\$0	\$1,38,839
Sales Tax							\$0	\$0	\$1,920	\$0	\$0	\$1,920
INEEUSubcontractorOverheads							\$34,752	\$0	\$10,644	\$0	\$0	\$45,396
Subtotal Estimate												\$186,155
Escalation							\$18,916	\$0	\$5,954	\$0	\$0	\$24,870
Continaencv							\$79,423	\$0	\$25,001	\$0	\$0	\$104,424
—Total 4.2.09.04MAIN SUPPORT BUILDING FINISHES					2,924		\$239,925	\$0	\$75,525	\$0	\$0	\$315,450

4.2.09.10STRIPPABLE COATINGS

		U.C. per SSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- RETRIEVAL FACILITY STRUCTURE	120,400.00	SSF	0			\$0	\$0	\$0	\$421,400	\$0	\$421,400
		U.C. per SSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- CLEAN AIRLOCK TRANSFER STRUCTURE	3,611.00	SSF	0			\$0	\$0	\$0	\$12,639	\$0	\$12,639
		U.C. per SSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- HVAC ROOM STRUCTURE (@ 50% OF 22,509.00 HVAC ROOM)		SSF	0			\$0	\$0	\$0	\$78,782	\$0	\$78,782
		U.C. per SSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- PERSONNEL AIRLOCK STRUCTURE	4,066.00	SSF	0			\$0	\$0	\$0	\$14,231	\$0	\$14,231
		U.C. per SSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- MAINTENANCE BAY GLOVE BOX STRUCTURE	5,215.00	SSF	0			\$0	\$0	\$0	\$18,253	\$0	\$18,253

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.09.10 STRIPPABLE COATINGS												
	STRIPPABLE COATINGS-AIRLOCK TO CHARACTERIZATION STRUCTURE	U.C. per SSF	15,240.00	SSF	0		0	0	0	3.5	0	3.5
							\$0	\$0	\$0	\$53,340	\$0	\$53,340
Subtotal							\$0	\$0	\$0	\$598,644	\$0	\$598,644
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												5598,644
Escalation							\$0	\$0	\$0	\$79,979	\$0	\$79,979
Contingency							\$0	\$0	\$0	\$335,810	\$0	\$335,810
—Total 4.2.09.10 STRIPPABLE COATINGS					0		\$0	\$0	\$0	\$1,014,432	\$0	\$1,014,432

4.2.11.01 WASH BAY EQUIPMENT

111791501410	PIPE	U.C. per Ea.			20	\$39.33	786.6	0	0	0	0	786.6
	Waste handling, for hazardous waste, 55 gal drum packerW/HEPA filter		1.00	Ea	20	CN-PIPE	\$787	\$0	\$0	\$0	\$0	\$787
Memo: For load out of Wash Bay filter solids.												
	WASH BAY FILTER FEED PUMP	U.C. per EA	2.00	EA	40	CN-PIPE	\$1,573	\$0	\$0	\$0	\$0	\$1,573
Memo: Taken from estimate #2646 SBW Treatment - NGLW CslX Study. Actual equipment requirements are undefined at this point in the design development. Used the information from estimate #2646 as an allowance.												

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location.: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S L Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.11.01 WASH BAY EQUIPMENT</u>												
	PIPE	U.C. per EA			80	\$39.33	3146.4	0	0	0	0	3146.4
	WASH BAY FILTER		2.00	EA	160	CN-PIPE	\$6,293	\$0	\$0	\$0	\$0	\$6,293
Memo: Taken from estimate #2646 SBW Treatment - NGLW CslX Study. Actual equipment requirements are undefined at this point in the design development. Used the information from estimate #2646 as an allowance.												
Subtotal							\$8,653	\$0	\$0	\$0	\$0	\$8,653
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$4.162	\$0	\$0	\$0	\$0	\$4.162
Subtotal Estimate												\$12,815
Escalation							\$1,712	\$0	\$0	\$0	\$0	\$1,712
Contingency							\$7,188	\$0	\$0	\$0	\$0	\$7,188
--Total 4.2.11.01 WASH BAY EQUIPMENT					220		\$21,715	\$0	\$0	\$0	\$0	\$21,715

4.2.13.01 FACILITY MOCK-UP

	MOCK-UP COSTS FOR STAGE III RETRIEVAL	U.C. per LS	1.00	LS	0		\$0	\$0	\$0	2606000	0	2606000
Memo: Mock-up costs are based on the Stage III teams input. It was decided by the team lead to use the GEM projects mock-up costs times two. Based on the current cost to date data sheet provided by the GEM PCE, this information is available in estimating back-up file. The cost for the GEM project mock-up was \$1,303,388 (rounded to \$1,303,000).												
Subtotal							\$0	\$0	\$0	\$2,606,000	\$0	\$2,606,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$2,606,000
Escalation							\$0	\$0	\$0	\$348,162	\$0	\$348,162
Contingency							\$0	\$0	\$0	\$1,461,823	\$0	\$1,461,823
—Total 4.2.13.01 FACILITY MOCK-UP					0		\$0	\$0	\$0	\$4,415,904	\$0	\$4,415,904

4.2.13.02.01 ERECT FABRIC STRUCTURES

Memo: Unit costs are based on the GEM project square footages, this unit costs also include equipment for structure erection, anchoring, door installation and labor.

	ERECT RFS FABRIC COVERING ONLY	U.C. per SF	127,300.00	SF	0		\$0	\$0	\$1,400,300	\$801,990	\$0	\$2,202,290
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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.13.02.01 ERECT FABRIC STRUCTURES												
<i>Memo: Unit costs are based on the GEM project square footages, this unit costs also include equipment for structure erection, anchoring, door installation and labor.</i>												
	ERECT-MAIN SUPPORT BUILDING- FRAME, FABRIC, & DOORS	U.C. per SF	31,200.00	SF	0		0	0	26.5	12.6	0	39.1
							\$0	\$0	\$826,800	\$393,120	\$0	\$1,219,920
	ERECT-AIRLOCK CHARACTERIZATION STRUCTURE- FRAME, FABRIC	U.C. per SF	4,200.00	SF	0		0	0	30	12.6	0	42.6
							\$0	\$0	\$126,000	\$52,920	\$0	\$178,920
<hr/>												
	Subtotal						\$0	\$0	\$2,353,100	\$1,248,030	\$0	\$3,601,130
	Sales Tax						\$0	\$0	\$141,186	\$0	\$0	\$141,186
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate						\$0	\$0	\$333,237	\$166,737	\$0	\$3,742,316
	Escalation						\$0	\$0	\$1,399,157	\$700,076	\$0	\$499,973
	Contingency						\$0	\$0	\$1,399,157	\$700,076	\$0	\$2,099,233
<hr/>												
--Total 4.2.13.02.01 ERECT FABRIC STRUCTURES					0		\$0	\$0	\$4,226,680	\$2,114,843	\$0	\$6,341,523

4.2.13.02.02 ERECT LINER PANELS

Memo: Costs are based on a surface per square foot from the GEM facility. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting. This unit cost also includes sealing and pressure testing of the structure.

ERECT-RCS RETRIEVAL STRUCTURE	U.C. per SSF	120,400.00	SSF	0		0	0	0	38.85	0	38.85
						\$0	\$0	\$0	\$4,677,540	\$0	\$4,677,540
ERECT-RCS WASH BAY STRUCTURE	U.C. per SSF	4,066.00	SSF	0		0	0	0	38.85	0	38.85
						\$0	\$0	\$0	\$157,964	\$0	\$157,964
ERECT-RCS CLEAN AIRLOCK TRANSFER STRUCTURE	U.C. per SSF	3,611.00	SSF	0		0	0	0	38.85	0	38.85
						\$0	\$0	\$0	\$140,287	\$0	\$140,287
ERECT-RCS HVAC ROOM STRUCTURE (@ 50% OF HVAC ROOM)	U.C. per SSF	22,509.00	SSF	0		0	0	0	38.85	0	38.85
						\$0	\$0	\$0	\$874,475	\$0	\$874,475
ERECT-RCS PERSONNEL AIRLOCK STRUCTURE	U.C. per SSF	4,066.00	SSF	0		0	0	0	38.85	0	38.85
						\$0	\$0	\$0	\$157,964	\$0	\$157,964

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.13.02.02 ERECT LINER PANELS</u>												
<i>Memo: Costs are based on a surface per square foot from the GEM facility. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting. This unit cost also includes sealing and pressure testing of the structure.</i>												
	ERECT-RCS MAINTENANCE BAY GLOVE BOX STRUCTURE		5,215.00	SSF	0		0 \$0	0 \$0	0 \$0	38.85 \$202,603	0 \$0	38.85 \$202,603
	ERECT-RCS AIRLOCK TO CHARACTERIZATION STRUCTURE		15,240.00	SSF	0		0 \$0	0 \$0	0 \$0	38.85 \$592,074	0 \$0	38.85 \$592,074
Subtotal							\$0	\$0	\$0	\$6,802,907	\$0	\$6,802,907
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$6,802,907
Escalation							\$0	\$0	\$0	\$908,868	\$0	\$908,868
Contingency							\$0	\$0	\$0	\$3,816,057	\$0	\$3,816,057
---Total 4.2.13.02.02 ERECT LINER PANELS					0		\$0	\$0	\$0	\$11,527,832	\$0	\$11,527,832

4.2.14.04 MAIN SUPPORT BLDG. CONVEYING SYSTEMS

	MAINT. BAY GLOVEBOX CRANE INSTALLATION	STEEL	U.C. per LS	1.00	LS	120	\$42.71 \$5,126	5125.6 \$2,842	2842 \$0	0 \$0	0 \$0	7967.6 \$7,968
<i>Memo: Based on Richards. Added 50% to manhours for block #5 of the Nine Block Matrix.</i>												
Subtotal							\$5,126	\$2,842	\$0	\$0	\$0	\$7,968
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$2,149	\$1,192	\$0	\$0	\$0	\$3,341
Subtotal Estimate												\$11,309
Escalation							\$972	\$539	\$0	\$0	\$0	\$1,511
Contingency							\$4,081	\$2,263	\$0	\$0	\$0	\$6,344
---Total 4.2.14.04 MAIN SUPPORT BLDG. CONVEYING SYSTEMS					120		\$12,328	\$6,835	\$0	\$0	\$0	\$19,163

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.01 HVAC- DUCTWORK												
	HVAC		<i>U.C. per LBS</i>		<i>0.2</i>	<i>\$36.82</i>	<i>7.364</i>	<i>0.3</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>9.664</i>
	STAINLESS STEEL DUCTWORK		338,230.00	LBS	67,646	CN-SHEE	\$2,490,726	\$101,469	\$676,460	\$0	\$0	\$3,268,655
	HVAC		<i>U.C. per LBS</i>		<i>0.08</i>	<i>\$36.82</i>	<i>2.946</i>	<i>0.3</i>	<i>0.75</i>	<i>0</i>	<i>0</i>	<i>3.996</i>
	GALVANIZED STEEL DUCTWORK		129,380.00	LBS	10,350	CN-SHEE	\$381,102	\$38,814	\$97,035	\$0	\$0	\$516,951
<hr/>												
	Subtotal						\$2,871,827	\$140,283	\$773,495	\$0	\$0	\$3,785,605
	Sales Tax						\$0	\$0	\$46,410	\$0	\$0	\$46,410
	INEEUSubcontractorOverheads	45.64%					\$1,310,576	\$64,019	\$374,168	\$0	\$0	\$1,748,763
<hr/>												
	Subtotal Estimate											\$5,580,778
	Escalation						\$558,769	\$27,295	\$159,528	\$0	\$0	\$745,592
	Continaency						\$2,346,231	\$114,609	\$669,847	\$0	\$0	\$3,130,687
<hr/>												
--Total	4.2.15.01.01 HVAC- DUCTWORK				77,996		\$7,087,403	\$346,205	\$2,023,449	\$0	\$0	\$9,457,057

4.2.15.01.02 EXHAUST STACK

			<i>U.C. per LBS</i>				<i>0</i>	<i>0</i>	<i>0</i>	<i>3.94</i>	<i>0</i>	<i>3.94</i>
	EXHAUST STACK 40" X 65 FT HIGH (C.S.) INCLUDING		41,393.00	LBS	0		\$0	\$0	\$0	\$163,088	\$0	\$163,088
	BASE											

Memo: Costs are based on the exhaust stack built and installed for the GEM project, but sized accordingly to support this Stage III project. Assume the stack base to be 105" in dia. and a 40' dia for the main stack section x 65 ft high, all fabricated from carbon steel materials. Estimated weight including base to be around 41,393 lbs.

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.02 EXHAUST STACK												
	INSTALLATION OF EXHAUST STACK		41,393.00	LBS	0		\$0	\$0	\$0	\$95,204	\$0	\$95,204
Memo: Stack installation costs are based on the GEM project, and increased accordingly to the new stack ROM design dimensions. Estimated weight, including base 41,393 lbs												
	Subtotal						\$0	\$0	\$0	\$258,292	\$0	\$258,292
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEU Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$258,292
	Escalation						\$0	\$0	\$0	\$34,508	\$0	\$34,508
	Contingency						\$0	\$0	\$0	\$144,896	\$0	\$144,896
--Total 4.2.15.01.02 EXHAUST STACK					0		\$0	\$0	\$0	\$437,696	\$0	\$437,696
4.2.15.01.03 EMISSIONS/VOC MONITORING												
Memo: Based on the GEM project design and cost. Assume the GEM project system will be sufficient, not cost adjustment needed for larger stack.												
	EXHAUST STACK MONITORING EQUIPMENT		1.00	EA	0		\$0	\$0	\$160,000	\$0	\$0	\$160,000
	INSTALLATION OF MONITORING EQUIPMENT		1.00	LS	0		\$0	\$0	\$0	\$9,000	\$0	\$9,000
	VOC MONITORING EQUIPMENT		1.00	LS	0		\$0	\$0	\$0	\$100,000	\$0	\$100,000
Memo: Cost are based on an allowance provided by Ryan McMurtrey, Ryan has experience in this type of system on other projects of this nature.												
	Subtotal						\$0	\$0	\$160,000	\$109,000	\$0	\$269,000
	Sales Tax						\$0	\$0	\$9,600	\$0	\$0	\$9,600
	INEEU Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$278,600
	Escalation						\$0	\$0	\$22,659	\$14,562	\$0	\$37,221
	Contingency						\$0	\$0	\$95,142	\$61,146	\$0	\$156,288
--Total 4.2.15.01.03 EMISSIONS/VOC MONITORING					0		\$0	\$0	\$287,400	\$184,709	\$0	\$472,109

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.04 HVAC - EQUIPMENT												
Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor.												
	PIPE				100	\$36.82	3682	1500	0	0	0	5182
	INSTALL-MISTELIMINATOR		1.00	EA	100	CN-SHEE	\$3,682	\$1,500	\$0	\$0	\$0	\$5,182
	PIPE				130	\$36.82	4786.6	1500	0	0	0	6286.6
	INSTALL-DUST COLLECTOR (55,000 CFM)		3.00	EA	390	CN-SHEE	\$14,360	\$4,500	\$0	\$0	\$0	\$18,860
	PIPE				150	\$36.82	5523	1000	0	0	0	6523
	INSTALL-BLOWER 300 HP (110,000 CFM)		2.00	EA	300	CN-SHEE	\$11,046	\$2,000	\$0	\$0	\$0	\$13,046
	PIPE				100	\$36.82	3682	1000	0	0	0	4682
	INSTALL-BLOWER 150 HP (37,000 CFM)		2.00	EA	200	CN-SHEE	\$7,364	\$2,000	\$0	\$0	\$0	\$9,364
	PIPE				77	\$36.82	2835.14	0	0	0	0	2835.14
	INSTALL-VFD 150 HP FOR FAN MOTORS		2.00	EA	154	CN-SHEE	\$5,670	\$0	\$0	\$0	\$0	\$5,670
	PIPE				85	\$36.82	3129.7	0	0	0	0	3129.7
	INSTALL-VFD 300 HP FOR FAN MOTORS		2.00	EA	170	CN-SHEE	\$6,259	\$0	\$0	\$0	\$0	\$6,259
	PIPE				6	\$36.82	220.92	0	0	0	0	220.92
	INSTALL-FIT TRANSMITTERS		4.00	EA	24	CN-SHEE	\$884	\$0	\$0	\$0	\$0	\$884
	PIPE				80	\$36.82	2945.6	1000	0	0	0	3945.6
	INSTALL-RFS PENTHOUSE (37,000 CFM)		1.00	EA	80	CN-SHEE	\$2,946	\$1,000	\$0	\$0	\$0	\$3,946
	PIPE				120	\$36.82	4418.4	1500	0	0	0	5918.4
	INSTALL-HEPA HOUSINGS 3H X 5W		2.00	EA	240	CN-SHEE	\$8,837	\$3,000	\$0	\$0	\$0	\$11,837
	PIPE				160	\$36.82	5891.2	1500	0	0	0	7391.2
	INSTALL-HEPA HOUSINGS 4H X 6W		2.00	EA	320	CN-SHEE	\$11,782	\$3,000	\$0	\$0	\$0	\$14,782
	PIPE				140	\$36.82	5154.8	1500	0	0	0	6654.8
	INSTALL-HEPA HOUSINGS 3H X 6W		1.00	EA	140	CN-SHEE	\$5,155	\$1,500	\$0	\$0	\$0	\$6,655
	PIPE				12	\$36.82	441.84	25	0	0	0	466.84
	INSTALL-HEPA HOUSINGS DON/DOFT AREAS		4.00	EA	48	CN-SHEE	\$1,767	\$100	\$0	\$0	\$0	\$1,867

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.04 HVAC-EQUIPMENT												
<i>Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor.</i>												
	PIPE	<i>U.C. per EA</i>			6	\$36.82	220.92	0	0	0	0	220.92
	INSTALL-PLC CONTROL UNITS		2.00	EA	12	CN-SHEE	\$442	\$0	\$0	\$0	\$0	\$442
	PIPE	<i>U.C. per EA</i>			120	\$36.82	4418.4	500	0	0	0	4918.4
	INSTALL-AIR COMPRESSOR (25HP)		1.00	EA	120	CN-SHEE	\$4,418	\$500	\$0	\$0	\$0	\$4,918
	PIPE	<i>U.C. per EA</i>			60	\$36.82	2209.2	100	0	0	0	2309.2
	INSTALL-DESSICANT DRYEWFILTER		1.00	EA	60	CN-SHEE	\$2,209	\$100	\$0	\$0	\$0	\$2,309
	PIPE	<i>U.C. per EA</i>			40	\$36.82	1472.8	50	0	0	0	1522.8
	INSTALL-72" DIA. DAMPERS (LEAK PROOF)		10.00	EA	400	CN-SHEE	\$14,728	\$500	\$0	\$0	\$0	\$15,228
<hr/>												
	Subtotal						\$101,550	\$19,700	\$0	\$0	\$0	\$121,250
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEU Subcontractor Overheads	48.10%					\$48,849	\$9,476	\$0	\$0	\$0	\$58,326
<hr/>												
	Subtotal Estimate											\$179,575
	Escalation						\$20,093	\$3,898	\$0	\$0	\$0	\$23,991
	Contingency						\$84,370	\$16,367	\$0	\$0	\$0	\$100,738
<hr/>												
—Total	4.2.15.01.04 HVAC- EQUIPMENT				2,750		\$254,063	\$49,442	\$0	\$0	\$0	\$304,304

4.2.15.01.05 CHILLER PIPING & EQUIPMENT

Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor with the exception of piping materials and insulation.

	PIPE	<i>U.C. per EA</i>			100	\$39.33	3933	0	0	0	0	3933
	INSTALL-150 TON PACKAGED CHILLER		1.00	EA	100	CN-PIPE	\$3,933	\$0	\$0	\$0	\$0	\$3,933
	PIPE	<i>U.C. per EA</i>			20	\$39.33	786.6	0	0	0	0	786.6
	INSTALL-250 GALLON WATER TANK		1.00	EA	20	CN-PIPE	\$787	\$0	\$0	\$0	\$0	\$787
	PIPE	<i>U.C. per EA</i>			120	\$39.33	4719.6	0	0	0	0	4719.6
	INSTALL-BOILER WATER HEATER 3,000 MBH		1.00	EA	120	CN-PIPE	\$4,720	\$0	\$0	\$0	\$0	\$4,720
	PIPE	<i>U.C. per EA</i>			32	\$39.33	1258.56	0	0	0	0	1258.56
	INSTALL-5 HP PUMP		3.00	EA	96	CN-PIPE	\$3,776	\$0	\$0	\$0	\$0	\$3,776

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.05 CHILLER PIPING & EQUIPMENT												
<i>Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor with the exception of piping materials and insulation.</i>												
	PIPE	<i>U.C. per EA</i>			43	\$39.33	7697.19	0	0	0	0	1691.19
INSTALL-25 HP PUMP			1.00	EA	43	CN-PIPE	\$1,691	\$0	\$0	\$0	\$0	\$1,691
	PIPE	<i>U.C. per EA</i>			19.3	\$39.33	759.07	0	0	0	0	759.07
INSTALL-VFD FOR 5 HP PUMP			1.00	EA	19	CN-PIPE	\$759	\$0	\$0	\$0	\$0	\$759
	PIPE	<i>U.C. per EA</i>			6	\$39.33	235.98	0	0	0	0	235.98
INSTALL-PLC CONTROLS UNITS			1.00	EA	6	CN-PIPE	\$236	\$0	\$0	\$0	\$0	\$236
	PIPE	<i>U.C. per EA</i>			12	\$39.33	471.96	0	0	0	0	471.96
INSTALL-3-WAY CONTROL VALVES			5.00	EA	60	CN-PIPE	\$2,360	\$0	\$0	\$0	\$0	\$2,360
	PIPE	<i>U.C. per EA</i>			8	\$39.33	314.64	0	0	0	0	314.64
INSTALL-MANUAL CONTROLS VALVES			28.00	EA	224	CN-PIPE	\$8,810	\$0	\$0	\$0	\$0	\$8,810
	PIPE	<i>U.C. per LF</i>			1.2	\$39.33	47.196	0	16	0	0	63.196
5" CHILLER PIPING (INCLUDES HANGERS & FITTINGS)			2,000.00	LF	2,400	CN-PIPE	\$94,392	\$0	\$32,000	\$0	\$0	\$126,392
	PIPE	<i>U.C. per LF</i>			0.8	\$39.33	31.464	0	8	0	0	39.464
2" CONDENSATE DRAIN PIPING			500.00	LF	400	CN-PIPE	\$15,732	\$0	\$4,000	\$0	\$0	\$19,732
	PIPE	<i>U.C. per LF</i>			0.7	\$39.33	27.531	0	17	0	0	44.531
5" PIPING INSULATION			2,000.00	LF	1,400	CN-PIPE	\$55,062	\$0	\$34,000	\$0	\$0	\$89,062
	PIPE	<i>U.C. per EA</i>			40	\$39.33	1573.2	0	0	0	0	1573.2
INSTALL-HEATING COIL 300 MBH			2.00	EA	80	CN-PIPE	\$3,146	\$0	\$0	\$0	\$0	\$3,146
	PIPE	<i>U.C. per EA</i>			60	\$39.33	2359.8	0	0	0	0	2359.8
INSTALL-HEATING COIL 420 MBH			1.00	EA	60	CN-PIPE	\$2,360	\$0	\$0	\$0	\$0	\$2,360

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.05 CHILLER PIPING & EQUIPMENT												
<i>Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor with the exception of pipng materials and Insulation.</i>												
	PIPE	U.C. per EA			80	\$39.33	3146.4	0	0	0	0	3146.4
	INSTALL-HEATING COIL 1000 MBH		2.00	EA	160	CN-PIPE	\$6,293	\$0	\$0	\$0	\$0	\$6,293
Subtotal							\$204,056	\$0	\$70,000	\$0	\$0	\$274,056
Sales Tax							\$0	\$0	\$4,200	\$0	\$0	\$4,200
INEEUSubcontractorOverheads							\$98,159	\$0	\$35,693	\$0	\$0	\$133,852
Subtotal Estimate												5412,108
Escalation							\$40,376	\$0	\$14,682	\$0	\$0	\$55,058
Contingency							\$169,536	\$0	\$61,648	\$0	\$0	\$231,183
— Total 4.2.15.01.05 CHILLER PIPING & EQUIPMENT					5,188		\$512,126	\$0	\$186,222	\$0	\$0	\$698,349

4.2.15.02.01 RPS FIRE SYSTEM CONTROLS

Memo: Costs are based on the GEM Project design, assume the same type system and coverage will be required for this facility.

	RPS FIRE SYSTEM CONTROLS (FACILITY FOOT PRINT)	U.C. per SF	164,400.00	SF	0		\$0	\$0	\$0	\$558,960	\$0	\$558,960
Subtotal							\$0	\$0	\$0	\$558,960	\$0	\$558,960
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$558,960
Escalation							\$0	\$0	\$0	\$74,677	\$0	\$74,677
Contingency							\$0	\$0	\$0	\$313,564	\$0	\$313,564
— Total 4.2.15.02.01 RPS FIRE SYSTEM CONTROLS					0		\$0	\$0	\$0	\$947,201	\$0	\$947,201

4.2.15.02.02 DRY PIPE FIRE PROTECTION

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

	DRY PIPE FIRE PROTECTION	U.C. per SF	217,000.00	SF	0		\$0	\$0	\$0	\$792,050	\$0	\$792,050
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Memo: Two dry pipe systems are required. One system will cover the area between the fabric outer structure and the liner, the other system will cover the area within the liner.

INEEL

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Estimating Services Department

Material Costs where applicable include Idaho State Sales Tax

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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.15.02.02 RFS DRY PIPE FIRE PROTECTION</u>												
<i>Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.</i>												
	FEED MAINS	U.C. per LS	2.00	LS	0		0 \$0	0 \$0	0 \$0	8000 \$16,000	0 \$0	8000 \$16,000
Subtotal							\$0	\$0	\$0	\$808,050	\$0	\$808,050
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$808,050
Escalation							\$0	\$0	\$0	\$107,955	\$0	\$107,955
Contingency							\$0	\$0	\$0	\$453,297	\$0	\$453,297
— Total 4.2.15.02.02 RFS DRY PIPE FIRE PROTECTION					0		\$0	\$0	\$0	\$1,369,303	\$0	\$1,369,303

4.2.15.02.04 RFS EXTRA HAZARD FOAM SYSTEM

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

	EXTRA HAZARD FOAM SYSTEM (EQUIPMENT ONLY)	U.C. per LS	1.00	LS	0			0 \$0	0 \$0	0 \$0	100000 \$100,000	0 \$0	100000 \$100,000
	EXTRA HAZARD FOAM PIPING DISTRIBUTION SYSTEM	U.C. per SF	90,000.00	SF	0			0 \$0	0 \$0	0 \$0	4.35 \$391,500	0 \$0	4.35 \$391,500

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S L Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.02.04 RFS EXTRA HAZARD FOAM SYSTEM												
<i>Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.</i>												
	EXTRA HAZARD FOAM MONITOR NOZZLES	U.C. per EA	10.00	EA	0		0	0	0	10000	0	10000
							\$0	\$0	\$0	\$100,000	\$0	\$100,000
Subtotal							\$0	\$0	\$0	\$591,500	\$0	\$591,500
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$591,500
Escalation							\$0	\$0	\$0	\$79,024	\$0	\$79,024
Contingency							\$0	\$0	\$0	\$331,818	\$0	\$331,818
--Total 4.2.15.02.04 RFS EXTRA HAZARD FOAM SYSTEM					0		\$0	\$0	\$0	\$1,002,342	\$0	\$1,002,342

4.2.15.02.05 MAIN SUPPORT BUILDING DRY PIPE SYSTEM

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

	MAIN SUPPORT BUILDING STRUCTURE-DRY PIPE FIRE PROTECTION	U.C. per	31,200.00		0		0	0	0	3.65	0	3.65
							\$0	\$0	\$0	\$113,880	\$0	\$113,880
	MAIN SUPPORT BUILDING- FEED MAINS	U.C. per LS	1.00	LS	0		0	0	0	3000	0	3000
							\$0	\$0	\$0	\$3,000	\$0	\$3,000
Subtotal							\$0	\$0	\$0	\$116,880	\$0	\$116,880
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$116,880
Escalation							\$0	\$0	\$0	\$15,615	\$0	\$15,615
Contingency							\$0	\$0	\$0	\$65,567	\$0	\$65,567
--Total 4.2.15.02.05 MAIN SUPPORT BUILDING DRY PIPE SYSTEM					0		\$0	\$0	\$0	\$198,062	\$0	\$198,062

DETAIL ITEM REPORT

Project Name: *OU 7-70 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 3
Project Location: *INEEL-RWMC*
Estimate Number: *5974-2 Option 3-R*

Client: *S. L. Austad*
Prepared By: *SNW/RDA*
Estimate Type: *Project Support*

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.02.06 ADDITIONAL MAIN SUPPORT BUILDING FIRE PROTECTION SYSTEMS												
Memo:	Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.											
	MAINTENCE BAY GLOVE BOX AREA-DRY PIPE FIRE PROTECTION	U.C. per SF	1,400.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$6,090	0 \$0	4.35 \$6,090
	HVAC ROOM	U.C. per SF	6,500.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$28,275	0 \$0	4.35 \$28,275
Memo:	HVAC CONFINEMENT AREA, 50% OF HVAC AREA, REQUIRES INDEPENDENT FIRE PROTECTION											
	WASH BAY FIRE PROTECTION	U.C. per SF	850.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$3,698	0 \$0	4.35 \$3,698
	PERSONNEL AIRLOCK AREA FIRE PROTECTION	U.C. per SF	850.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$3,698	0 \$0	4.35 \$3,698
	CLEAN AIRLOCK AREA FIRE PROTECTION	U.C. per SF	730.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$3,176	0 \$0	4.35 \$3,176
Subtotal							\$0	\$0	\$0	\$44,936	\$0	\$44,936
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$44,936
Escalation							\$0	\$0	\$0	\$6,003	\$0	\$6,003
Continoency							\$0	\$0	\$0	\$25,208	\$0	\$25,208
—Total	4.2.15.02.06 ADDITIONAL MAIN SUPPORT BUILDING FIRE PROTECTIONS SYSTEMS				0		\$0	\$0	\$0	\$76,147	\$0	\$76,147

4.2.15.02.07 AIRLOCK TO CHARACTERIZATION FIRE PROTECTION

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

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DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
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4.2.15.02.07 AIRLOCK TO CHARACTERIZATION FIRE PROTECTION

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

Subtotal								\$0	\$0	\$0	\$30,660	\$0	\$30,660
Sales Tax								\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads	0.00%							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate													\$30,660
Escalation								\$0	\$0	\$0	\$4,096	\$0	\$4,096
Contingency								\$0	\$0	\$0	\$17,200	\$0	\$17,200
—Total	4.2.15.02.07	AIRLOCK TO CHARACTERIZATION FIRE PROTECTION			0			\$0	\$0	\$0	\$51,956	\$0	\$51,956

4.2.15.03 PLANT AIR

Memo: Costs are based on the GEM Project design, assume the same type system and coverage will be required for this facility. Equipment cost for the compressor is located in the procurement WBS.

RFS PLANT AIR DISTRIBUTION SYSTEM	<i>U.C. per SF</i>	127,000.00	SF	0				0	0	0	2.04	0	2.04
								\$0	\$0	\$0	\$259,080	\$0	\$259,080
MAIN SUPPORT BUILDING (ALL AREAS)	<i>U.C. per SF</i>	31,200.00	SF	0				0	0	0	2.04	0	2.04
								\$0	\$0	\$0	\$63,648	\$0	\$63,648
Subtotal								\$0	\$0	\$0	\$322,728	\$0	\$322,728
Sales Tax								\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads	0.00%							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate													\$322,720
Escalation								\$0	\$0	\$0	\$43,116	\$0	\$43,116
Contingency								\$0	\$0	\$0	\$181,043	\$0	\$181,043
—Total	4.2.15.03	PLANT AIR			0			\$0	\$0	\$0	\$546,007	\$0	\$546,007

DETAIL ITEM REPORT

Project Name: *OU 7-10 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 3
 Project Location: *INEEL-RWMC*
 Estimate Number: *5974-2 Option 3-R*

Client: *S. L. Austad*
 Prepared By: *SNW/RDA*
 Estimate Type: *Project Support*

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.04 BREATHING AIR												
Memo: Costs are based on the GEM Project design, assume the same type system and coverage will be required for this facility. No costs for the breathing air compressor have been included, assume provided to the project by the BBWI equipment pool at no cost to this project.												
	BREATHING AIR DISTRIBUTION SYSTEM	<i>U.C. per SF</i>	90,000.00	SF	0		\$0	\$0	50	\$504,000	\$0	\$504,000
Memo: Assume 50% less piping due to large open area within the RFS.												
	MAINTENANCE BAY GLOVE BOX - BREATHING AIR DISTRIBUTION SYSTEM	<i>U.C. per SF</i>	1,400.00	SF	0		\$0	\$0	\$0	\$15,680	\$0	\$15,680
	HVAC ROOM BREATHING AIR DISTRIBUTION SYSTEM	<i>U.C. per SF</i>	6,500.00	SF	0		\$0	\$0	50	\$72,800	50	\$72,800
	PERSONNEL AIRLOCK	<i>U.C. per SF</i>	850.00	SF	0		\$0	50	\$0	\$9,520	50	\$9,520
	CLEAN TRANSFER AIRLOCK	<i>U.C. per SF</i>	730.00	SF	0		50	\$0	\$0	\$8,176	50	\$8,176
	WASH BAY AIRLOCK	<i>U.C. per SF</i>	850.00	SF	0		\$0	\$0	50	\$9,520	50	\$9,520
Subtotal							\$0	50	\$0	\$619,696	50	\$619,696
Sales Tax							50	50	\$0	\$0	50	50
INEE Subcontractor Overheads							50	50	\$0	\$0	50	\$0
Subtotal Estimate												\$619,696
Escalation							50	\$0	50	\$82,791	50	\$82,791
Contingency							\$0	\$0	50	\$347,635	\$0	\$347,635
— Total 4.2.15.04 BREATHING AIR					0		\$0	\$0	\$0	\$1,050,122	\$0	\$1,050,122

4.2.15.05 DUST SUPPRESSION

Memo: Costs are based on the **GEM** project. Assume this facility will require three complete **GEM** facility systems- This is based on the area of the dig face in relation to the dig area of the **GEM** project.

	DUST SUPPRESSION SYSTEM (3 COMPLETE SYSTEM)	<i>U.C. per EA</i>	3.00	EA	0		\$0	\$0	50	\$276,726	50	\$276,726
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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquiDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.15.05 DUST SUPPRESSION</u>												
<i>Memo: Costs are based on the GEM project. Assume this facility will require three complete GEM facility systems. This is based on the area of the dig face in relation to the dig area of the GEM project.</i>												
	Subtotal						\$0	\$0	\$0	\$276,726	\$0	\$276,726
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$276,726
	Escalation						\$0	\$0	\$0	\$36,971	\$0	\$36,971
	Continuency						\$0	\$0	\$0	\$155,237	\$0	\$155,237
—Total 4.2.15.05 DUST SUPPRESSION					0		\$0	\$0	\$0	\$468,933	\$0	\$468,933

4.2.15.06 MISC. MECHANICAL

		<i>U.C. per EA</i>					0	0	0	8000	0	8000
MAINT. GLOVE BOX GLOVE PORTS-OVALS			25.00	EA	0		\$0	\$0	\$0	\$200,000	\$0	\$200,000
		<i>U.C. per EA</i>					0	0	0	10000	0	10000
MAINT. GLOVE BOX SAMPLE BAG-OUTS			4.00	EA	0		\$0	\$0	\$0	\$40,000	\$0	\$40,000
		<i>U.C. per EA</i>					0	0	0	5000	0	5000
MAINT. GLOVE BOX SAMPLE CANS			4.00	EA	0		\$0	\$0	\$0	\$20,000	\$0	\$20,000
		<i>U.C. per EA</i>					0	0	0	6400	0	6400
MAINT. GLOVE BOX BAG-OUT PORTS			4.00	EA	0		\$0	\$0	\$0	\$25,600	\$0	\$25,600
		<i>U.C. per EA</i>					0	0	0	1500	0	1500
MAINT. GLOVE BOX HOIST LOAD CELL			1.00	EA	0		\$0	\$0	\$0	\$1,500	\$0	\$1,500
		<i>U.C. per EA</i>					0	0	0	2000	0	2000
MAINT. GLOVE BOX PORTABLE DECON VAC			1.00	EA	0		\$0	\$0	\$0	\$2,000	\$0	\$2,000
		<i>U.C. per LS</i>					0	0	0	50000	0	50000
MAINT. GLOVE BOX ALLOWANCE FOR REMOTE MAINTENANCE TOOLS			1.00	LS	0		\$0	\$0	\$0	\$50,000	\$0	\$50,000

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescrIption</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.15.06 MISC. MECHANICAL</u>												
	PIPE	<i>U.C. per LF</i>			<i>0.182</i>	<i>\$39.33</i>	<i>7.158</i>	<i>0</i>	<i>32.7</i>	<i>0</i>	<i>0</i>	<i>39.858</i>
	WASH BAY PIPING ALLOWANCE		640.00	LF	116	CN-PIPE	\$4,581	\$0	\$20,928	\$0	\$0	\$25,509
	PIPE	<i>U.C. per LF</i>			<i>0.182</i>	<i>\$39.33</i>	<i>7.158</i>	<i>0</i>	<i>32.7</i>	<i>0</i>	<i>0</i>	<i>39.858</i>
	HVAC ROOM MISC. PIPING ALLOWANCE		9,700.00	LF	1,765	CN-PIPE	\$69,433	\$0	\$317,190	\$0	\$0	\$386,623
<hr/>												
	Subtotal						\$74,014	\$0	\$338,118	\$339,100	\$0	\$751,232
	Sales Tax						\$0	\$0	\$20,287	\$0	\$0	\$20,287
	INEEUSubcontractorOverheads	26.96%					\$35,604	\$0	\$172,407	\$0	\$0	\$208,011
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	Subtotal Estimate											\$979,530
	Escalation						\$14,645	\$0	\$70,917	\$45,304	\$0	\$130,865
	Contingency						\$61,493	\$0	\$297,773	\$190,227	\$0	\$549,494
<hr/>												
---Total	4.2.15.06 MISC. MECHANICAL				1,882		\$185,756	\$0	\$899,502	\$574,631	\$0	\$1,659,890

4.2.16.01 GENERAL FACILITIES ELECTRICAL

Memo: *Costs are based on the GEM project calculated square footage.*

		<i>U.C. per SF</i>					<i>0</i>	<i>0</i>	<i>0</i>	<i>17</i>	<i>0</i>	<i>17</i>
	FACILITY RACEWAYS		158,200.00	SF	0		\$0	\$0	\$0	\$2,689,400	\$0	\$2,689,400
		<i>U.C. per SF</i>					<i>0</i>	<i>0</i>	<i>0</i>	<i>6.36</i>	<i>0</i>	<i>6.36</i>
	FACILITY WIRE & CABLE		158,200.00	SF	0		\$0	\$0	\$0	\$1,006,152	\$0	\$1,006,152
		<i>U.C. per SF</i>					<i>0</i>	<i>0</i>	<i>0</i>	<i>8.75</i>	<i>0</i>	<i>8.75</i>
	FACILITY LIGHTING		158,200.00	SF	0		\$0	\$0	\$0	\$1,384,250	\$0	\$1,384,250

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.16.01 GENERAL FACILITIES ELECTRICAL												
<i>Memo: Costs are based on the GEM project calculated square footage.</i>												
	FACILITY MISC. (TELEPHONE, LIGHTNING PROTECTION, ETC.)		158,200.00	SF	0		0	0	0	5.45	0	5.45
							\$0	\$0	\$0	\$862,190	\$0	9862,190
Subtotal							\$0	\$0	\$0	\$5,941,992	\$0	\$5,941,992
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$5,941,992
Escalation							\$0	\$0	\$0	\$793,850	\$0	\$793,850
Contingency							\$0	\$0	\$0	\$3,333,443	\$0	\$3,333,443
—Total 4.2.16.01 GENERAL FACILITIES ELECTRICAL					0		\$0	\$0	\$0	\$10,069,285	\$0	\$10,069,285

4.2.16.02.01 MAIN FEED CONDUITS AND CONDUCTORS

500 MCM, 5 kV 3-CONDUCTOR MINING POWER CABLE	ELEC	U.C. per LF	400.00	LF	0.1	\$35.89	3.589	0	30	0	0	33.589
					40	CN-ELEC	\$1,436	\$0	\$12,000	\$0	\$0	\$13,436
250 MCM, 5 kV 3-CONDUCTOR MINING POWER CABLE	ELEC	U.C. per LF	400.00	LF	0.08	\$35.89	2.871	0	19.75	0	0	22.621
					32	CN-ELEC	\$1,148	\$0	\$7,900	\$0	\$0	\$9,048
500 MCM 5 kV TERMINATION KITS	ELEC	U.C. per EA	6.00	EA	4	\$35.89	143.56	0	60	0	0	203.56
					24	CN-ELEC	\$861	\$0	\$360	\$0	\$0	\$1,221
250 MCM 5 kV TERMINATION KITS	ELEC	U.C. per EA	6.00	EA	4	\$35.89	143.56	0	45	0	0	188.56
					24	CN-ELEC	\$861	\$0	\$270	\$0	\$0	\$1,131
HI-POT TESTING	ELEC	U.C. per EA	6.00	EA	4	\$35.89	143.56	0	0	0	0	143.56
					24	CN-ELEC	\$861	\$0	\$0	\$0	\$0	\$861
500 MCM THHN 600 VOLT COPPER WIRE	ELEC	U.C. per LF	3,600.00	LF	0.054	\$35.89	1.938	0	0	0	0	1.938
					194	CN-ELEC	\$6,977	\$0	\$0	\$0	\$0	\$6,977

Memo: Assume main switchgear is located within 100 feet of the power transformers.

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.02.01 MAIN FEED CONDUITS AND CONDUCTORS</u>												
	ELEC	U.C. per LF			0.3	\$35.89	10.767	0	0	0	0	10.767
	5" EMT CONDUIT WITH FITTINGS AND SUPPORTS		1,600.00	LF	480	CN-ELEC	\$17,227	\$0	\$0	\$0	\$0	\$17,227
Subtotal							\$29,372	\$0	\$20,530	\$0	\$0	\$49,902
Sales Tax							\$0	\$0	\$1,232	\$0	\$0	\$1,232
INEEUSubcontractorOverheads							\$14,129	\$0	\$10,468	\$0	\$0	\$24,598
Subtotal Estimate												\$75,732
Escalation							\$5,812	\$0	\$4,306	\$0	\$0	\$10,118
Contingency							\$24,404	\$0	\$18,081	\$0	\$0	\$42,485
--Total	4.2.16.02.01	MAIN FEED CONDUITS AND CONDUCTORS			818		\$73,718	\$0	\$54,617	\$0	\$0	\$128,335
<u>4.2.16.02.02 TRANSFORMERS</u>												
	ELEC	U.C. per EA			76	\$35.89	2727.64	1500	16800	0	0	21027.64
	1000kVA 4160-480 DIST. TRANSFORMER, S-XFR-1		1.00	EA	76	CN-ELEC	\$2,728	\$1,500	\$16,800	\$0	\$0	\$21,028
Memo: Transformer pricing is based on R. S. Means.												
	ELEC	U.C. per EA			100	\$35.89	3589	1500	25200	0	0	30289
	2000 kVA 4160-480 DIST. TRANSFORMER, N-XFR-1		1.00	EA	100	CN-ELEC	\$3,589	\$1,500	\$25,200	\$0	\$0	\$30,289
Memo: Transformer pricing is based on R. S. Means.												
Subtotal							\$6,317	\$3,000	\$42,000	\$0	\$0	\$51,317
Sales Tax							\$0	\$0	\$2,520	\$0	\$0	\$2,520
INEEUSubcontractorOverheads							\$3,039	\$1,443	\$21,416	\$0	\$0	\$25,898
Subtotal Estimate												\$79,734
Escalation							\$1,250	\$594	\$8,809	\$0	\$0	\$10,652
Contingency							\$5,248	\$2,493	\$36,990	\$0	\$0	\$44,731
—Total	4.2.16.02.02	TRANSFORMERS			176		\$15,853	\$7,529	\$111,735	\$0	\$0	\$135,117

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.1 6.02.03 SITEWORK</u>												
	ELEC	<i>U.C. per EA</i>					0	0	0	10000	0	1000
	ALLOWANCE FOR TRANSFORMER PADS		2.00	EA	0		\$0	\$0	\$0	\$20,000	\$0	\$20,000
Subtotal							\$0	\$0	\$0	\$20,000	\$0	\$20,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$9,621	\$0	\$9,621
Subtotal Estimate												\$29,621
Escalation							\$0	\$0	\$0	\$3,957	\$0	\$3,957
Contingency							\$0	\$0	\$0	\$16,617	\$0	\$16,617
---Total 4.2.1 6.02.03 SITEWORK					0		\$0	\$0	\$0	\$50,195	\$0	\$50,195

4.2.1 6.02.04 SWITCHGEAR

	ELEC	<i>U.C. per EA</i>			120	\$35.89	4306.8	1500	35525	0	0	41331.8
S-MCC-1, 2000 AMP MAIN, 277/408 VOLT			1.00	EA	120	CN-ELEC	\$4,307	\$1,500	\$35,525	\$0	\$0	\$41,332
	ELEC	<i>U.C. per EA</i>			160	\$35.89	5742.4	1500	46525	0	0	53767.4
MCC-1, 4000 AMP MAIN, 277/408 VOLT			1.00	EA	160	CN-ELEC	\$5,742	\$1,500	\$46,525	\$0	\$0	\$53,767
	ELEC	<i>U.C. per EA</i>			16	\$35.89	574.24	0	3375	0	0	3949.24
S-PP-1, 600 AMP 277/480 PANEL			1.00	EA	16	CN-ELEC	\$574	\$0	\$3,375	\$0	\$0	\$3,949
	ELEC	<i>U.C. per EA</i>			8	\$35.89	287.12	0	1690	0	0	1977.12
S-PP-2, 100 AMP 277/480 PANEL			1.00	EA	8	CN-ELEC	\$287	\$0	\$1,690	\$0	\$0	\$1,977
	ELEC	<i>U.C. per EA</i>			16	\$35.89	574.24	0	3375	0	0	3949.24
N-PP-1, 600 AMP 277/480 PANEL			1.00	EA	16	CN-ELEC	\$574	\$0	\$3,375	\$0	\$0	\$3,949
	ELEC	<i>U.C. per EA</i>			16	\$35.89	574.24	0	3375	0	0	3949.24
L-LP-1, 600 AMP 277/480 PANEL			1.00	EA	16	CN-ELEC	\$574	\$0	\$3,375	\$0	\$0	\$3,949
	ELEC	<i>U.C. per EA</i>			8	\$35.89	287.12	0	2450	0	0	2737.12
225 AMP 277/480 LIGHTING, HEAT, AND POWER PANELS			12.00	EA	96	CN-ELEC	\$3,445	\$0	\$29,400	\$0	\$0	\$32,845

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.02.04 SWITCHGEAR</u>												
	ELEC	<i>U.C. per LS</i>			80	\$35.89	2871.2	0	5000	0	0	7871.2
	ALLOWANCE FOR DISCONNECT SWITCHES		1.00	LS	80	CN-ELEC	\$2,871	\$0	\$5,000	\$0	\$0	\$7,871
<hr/>												
	Subtotal						\$18,376	\$3,000	\$128,265	\$0	\$0	\$149,641
	Sales Tax						\$0	\$0	\$7,696	\$0	\$0	\$7,696
	INEEUSubcontractorOverheads	48.10%					\$8,839	\$1,443	\$65,403	\$0	\$0	\$75,685
<hr/>												
	Subtotal Estimate											\$233,022
	Escalation						\$3,636	\$594	\$26,902	\$0	\$0	\$31,132
	Contingency						\$15,268	\$2,493	\$112,964	\$0	\$0	\$130,725
<hr/>												
--Total 4.2.16.02.04 SWITCHGEAR					512		\$46,119	\$7,529	\$341,230	\$0	\$0	\$394,878

4.2.1 6.02.05 MISC. CONNECTIONS

	ELEC	<i>U.C. per EA</i>			2	\$35.89	71.78	0	50	0	0	121.78
	5 HP MOTOR CONNECTION		3.00	EA	6	CN-ELEC	\$215	\$0	\$150	\$0	\$0	\$365
	ELEC	<i>U.C. per EA</i>			3	\$35.89	107.67	0	125	0	0	232.67
	25 HP MOTOR CONNECTION		2.00	EA	6	CN-ELEC	\$215	\$0	\$250	\$0	\$0	\$465
	ELEC	<i>U.C. per EA</i>			4	\$35.89	143.56	0	250	0	0	393.56
	50 HP MOTOR CONNECTION		1.00	EA	4	CN-ELEC	\$144	\$0	\$250	\$0	\$0	\$394
	ELEC	<i>U.C. per EA</i>			5	\$35.89	179.45	0	400	0	0	579.45
	150 HP MOTOR CONNECTION		2.00	EA	10	CN-ELEC	\$359	\$0	\$800	\$0	\$0	\$1,159
	ELEC	<i>U.C. per EA</i>			8	\$35.89	287.12	0	600	0	0	887.12
	300 HP MOTOR CONNECTION		2.00	EA	16	CN-ELEC	\$574	\$0	\$1,200	\$0	\$0	\$1,774

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.02.05 MISC. CONNECTIONS</u>												
	CHILLER	ELEC			8	\$35.89	287.12	0	200	0	0	487.12
		U.C. per EA	1.00	EA	8	CN-ELEC	\$287	\$0	\$200	\$0	\$0	\$487
Subtotal							\$1,795	\$0	\$2,850	\$0	\$0	\$4,645
Sales Tax							\$0	\$0	\$171	\$0	\$0	\$171
INEEUSubcontractorOverheads							\$863	\$0	\$1,453	\$0	\$0	\$2,316
Subtotal Estimate												\$7,132
Escalation							\$355	\$0	\$598	\$0	\$0	\$953
Contingency							\$1,491	\$0	\$2,510	\$0	\$0	\$4,001
--Total 4.2.16.02.05 MISC. CONNECTIONS					50		\$4,504	\$0	\$7,582	\$0	\$0	\$12,086
<u>4.2.16.02.06 TESTING</u>												
	ALLOWANCE FOR TESTING OF SYSTEMS AND EQUIPMENT	ELEC			240	\$35.89	8613.6	0	0	0	0	8613.6
		U.C. per LS	1.00	LS	240	CN-ELEC	\$8,614	\$0	\$0	\$0	\$0	\$8,614
Subtotal							\$8,614	\$0	\$0	\$0	\$0	\$8,614
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$4,143	\$0	\$0	\$0	\$0	\$4,143
Subtotal Estimate												\$12,757
Escalation							\$1,704	\$0	\$0	\$0	\$0	\$1,704
Contingency							\$7,157	\$0	\$0	\$0	\$0	\$7,157
--Total 4.2.16.02.06 TESTING					240		\$21,610	\$0	\$0	\$0	\$0	\$21,618
<u>4.2.16.03 MONITORING AND CONTROLS</u>												
Memo: Unit costs are based on the GEM project calculated square footage. This unit cost also included HVAC controls.												
	MONITORING AND CONTROLS-INSTRUMENTATION (BASED ON THE GEM PROJECT SF)											
		U.C. per SF	58,200.00	SF	0		\$0	\$0	\$0	\$933,380	\$0	\$933,380
							0	0	0	5.9	0	5.9

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
Prepared By: **SNW/RDA**
Estimate Type: **Project Support**

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4.2.16.04 CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION

CRITICALITY SYSTEM INSTALLATION	3.00	EA	0	0	0	20185	0	20185
Memo: Based on the GEM project installation costs for criticality equipment.				\$0	\$0	\$0	\$60,555	\$60,555

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.04 CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION</u>												
	RADIOLOGICAL MONITORING EQUIPMENT INSTALLATION	U.C. per LS	1.00	LS	0		\$0	\$0	\$0	16349	\$0	16349
							\$0	\$0	\$0	\$16,349	\$0	\$16,349
Subtotal							\$0	\$0	\$0	\$76,904	\$0	\$76,904
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate							\$0	\$0	\$0	\$10,274	\$0	\$76,904
Escalation							\$0	\$0	\$0	\$43,143	\$0	\$10,274
Contingency							\$0	\$0	\$0	\$0	\$0	\$43,143
--Total	4.2.16.04 CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION				0		\$0	\$0	\$0	\$130,321	\$0	\$130,321

4.2.16.05 CCTV MONITORING SYSTEM

Memo: Costs are based on the GEM project calculated square footage.

	CCTV MONITORING SYSTEM-INSTALLATION LABOR	U.C. per SF	158,200.00	SF	0		\$0	\$0	\$0	1.36	\$0	1.36
							\$0	\$0	\$0	\$215,152	\$0	\$215,152
Memo: Unit costs are based on the GEM project. Camera equipment costs are included in the procurement WBS												
Subtotal							\$0	\$0	\$0	\$215,152	\$0	\$215,152
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate							\$0	\$0	\$0	\$28,744	\$0	\$215,152
Escalation							\$0	\$0	\$0	\$120,700	\$0	\$28,744
Contingency							\$0	\$0	\$0	\$0	\$0	\$120,700
—Total	4.2.16.05 CCTV MONITORING SYSTEM				0		\$0	\$0	\$0	\$364,596	\$0	\$364,596

4.2.16.06 INTEGRATION CONTROLS SYSTEM

Memo: Costs are based on input from the Human/Intelligent systems group based on a similar system used for the 3100 cubic meter project. These costs were developed by identifying work scope tasks and required equipment. Included in the estimate back-up file are the developed spreadsheets identifying these tasks in full detail.

E07	BBWI-A	U.C. per LS	4980		\$73.95	368270.67	0	0	0	0	368270.67
	ELECTRONIC ENGINEERING		1.00	LS	4,980	E07	\$368,271	\$0	\$0	\$0	\$368,271

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Estimating Services Department

Material Costs where applicable include Idaho State Sales Tax

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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S L Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.06 INTEGRATION CONTROL SYSTEM</u>												
<i>Memo: Costs are based on input from the Human/Intelligent systems group based on a similar system used for the 3100 cubic meter project. These costs were developed by identifying work scope tasks and required equipment. Included in the estimate back-up file are the developed spreadsheets identifying these task in full detail.</i>												
E11	MECHANICAL ENGINEERING	BBWI-A			3600	\$81.44	293 198.92	0	0	0	0	293 198.92
			1.00	LS	3,600	E11	\$293,199	\$0	\$0	\$0	\$0	\$293,199
E59	DESIGNER, MECHANICAL	BBWI-A			3360	\$62.95	21 1517.89	0	0	0	0	21 1517.89
			1.00	LS	3,360	E59	\$211,518	\$0	\$0	\$0	\$0	\$211,518
E07	ELECTRONIC ENGINEERING	BBWI-A			1900	\$73.95	140 504.87	0	0	0	0	140 504.87
			1.00	LS	1,900	E07	\$140,505	\$0	\$0	\$0	\$0	\$140,505
E17	QUALITY ENGINEERING	BBWI-A			415	\$74.43	30 887.77	0	0	0	0	30 887.77
			1.00	LS	415	E17	\$30,888	\$0	\$0	\$0	\$0	\$30,888
E19	SAFETY ENGINEERING	BBWI-A			415	\$76.85	31 894.31	0	0	0	0	31 894.31
			1.00	LS	415	E19	\$31,894	\$0	\$0	\$0	\$0	\$31,894
E28	PROJ MGMT - ENGINEERING/SCIENTIFIC	BBWI-A			2076	\$96.71	200 769.21	0	0	0	0	200 769.21
			1.00	LS	2,076	E28	\$200,769	\$0	\$0	\$0	\$0	\$200,769
E24	SYSTEMS ENGINEERING	BBWI-A			585	\$85.52	50 026.67	0	0	0	0	50 026.67
			1.00	LS	585	E24	\$50,027	\$0	\$0	\$0	\$0	\$50,027
204	MANAGER, SCI/ENG FUNCTION	BBWI-A			415	\$124.64	51 724.1	0	0	0	0	51 724.1
			1.00	LS	415	204	\$51,724	\$0	\$0	\$0	\$0	\$51,724

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.16.06 INTEGRATION CONTROLS SYSTEM												
<i>Memo: Costs are based on input from the Human/Intelligent systems group based on a similar system used for the 3100 cubic meter project. These costs were developed by identifying work scope tasks and required equipment. Included in the estimate back-up file are the developed spreadsheets identifying these task in full detail.</i>												
	MATERIALS	U.C. per LS	1.00	LS	0		\$0	\$0	\$1,700,000	\$0	\$0	\$1,700,000
	Subtotal						\$1,378,794	\$0	\$1,700,000	\$0	\$0	\$3,078,794
	Sales Tax						\$0	\$0	\$102,000	\$0	\$0	\$102,000
	INEEUSubcontractorOverheads	4.94%					\$157,183	\$0	\$0	\$0	\$0	\$157,183
	Subtotal Estimate											\$3,337,977
	Escalation						\$205,207	\$0	\$240,747	\$0	\$0	\$445,954
	Continuency						\$861,679	\$0	\$1,010,917	\$0	\$0	\$1,872,597
— Total	4.2.16.06 INTEGRATION CONTROLS SYSTEM				17,746		\$2,602,863	\$0	\$3,053,665	\$0	\$0	\$5,656,527

OPC3100 TESTING AND TURNOVER PLANNING

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	TESTING & TURNOVER PLANNING	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$193,635	\$193,635
	Subtotal						\$0	\$0	\$0	\$0	\$193,635	\$193,635
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$193,635
	Escalation						\$0	\$0	\$0	\$0	\$31,137	\$31,137
	Continuency						\$0	\$0	\$0	\$0	\$161,773	\$161,773
— Total	OPC3100 TESTING AND TURNOVER PLANNING				0		\$0	\$0	\$0	\$0	\$386,545	\$386,545

OPC3200 S. O. TESTING

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	S. O. TESTING	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$2,904,532	\$2,904,532
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Estimating Services Department

Material Costs where applicable include Idaho State Sales Tax

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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3200 S.O. TESTING												
<i>Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal						\$0	\$0	\$0	\$0	\$2,904,532	\$2,904,532
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$2,904,532
	Escalation						\$0	\$0	\$0	\$0	\$467,049	\$467,049
	Contingency						\$0	\$0	\$0	\$0	\$2,426,598	\$2,426,598
-- Total OPC3200 S. O. TESTING					0		\$0	\$0	\$0	\$0	\$5,798,179	\$5,798,179

OPC3300 ORR SUPPORT

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

ORR SUPPORT	U.C. per \$	96,817,741.00	\$	0	0	0	0	0	0.002	0.002
				\$0	\$0	\$0	\$0	\$0	\$212,999	\$212,999
Subtotal					\$0	\$0	\$0	\$0	\$212,999	\$212,999
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads	0.00%				\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$212,999
Escalation					\$0	\$0	\$0	\$0	\$34,250	\$34,250
Contingency					\$0	\$0	\$0	\$0	\$177,950	\$177,950
-- Total OPC3300 ORR SUPPORT				0	\$0	\$0	\$0	\$0	\$425,200	\$425,200

OPC3400 FACILITY ACCEPTANCE REVIEW

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	FACILITY ACCEPTANCE REVIEW	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	0.001	\$145,227	\$145,227
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DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>OPC3400 FACILITY ACCEPTANCE REVIEW</u>												
Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.												
	Subtotal							\$0	\$0	\$0	\$0	\$145,227
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$145,227
	Escalation							\$0	\$0	\$0	\$0	\$23,352
	Contingency							\$0	\$0	\$0	\$121,330	\$121,330
--Total OPC3400 FACILITY ACCEPTANCE REVIEW					0			\$0	\$0	\$0	\$289,909	\$289,909

OPC3500 RADIOLOGICAL CONTROL SUPPORT

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		U.C. per \$				0	0	0	0	0.001	0.001
	RADCONTROLSUPPORT	96,817,741.00	\$		0	\$0	\$0	\$0	\$0	\$106,500	\$106,500
	Subtotal					\$0	\$0	\$0	\$0	\$106,500	\$106,500
	Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate										\$106,500
	Escalation					\$0	\$0	\$0	\$0	\$17,125	\$17,125
	Contingency					\$0	\$0	\$0	\$0	\$88,975	\$88,975
--Total OPC3500 RADIOLOGICAL CONTROL SUPPORT					0	\$0	\$0	\$0	\$0	\$212,600	\$212,600

OPC3600 OPERATOR TRAINING

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		U.C. per \$				0	0	0	0	0.02	0.02
	OPERATOR TRAINING	96,817,741.00	\$		0	\$0	\$0	\$0	\$0	\$1,936,355	\$1,936,355

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3600 OPERATOR TRAINING												
<i>Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal							\$0	\$0	\$0	\$0	\$1,936,355
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL Subcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$1,936,355
	Escalation							\$0	\$0	\$0	\$311,366	\$311,366
	Contingency							\$0	\$0	\$0	\$1,617,732	\$1,617,732
--Total OPC3600 OPERATOR TRAINING					0			\$0	\$0	\$0	\$3,865,452	\$3,865,452

OPC3700 OPERATING PROCEDURES

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		U.C. per \$			0		0	0	0	0	0.004	0.004
	OPERATING PROEDURES	96,817,741.00	\$	0	\$0		\$0	\$0	\$0	\$0	\$425,998	\$425,998
<hr/>												
	Subtotal				\$0		\$0	\$0	\$0	\$0	\$425,998	\$425,998
	Sales Tax				\$0		\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%			\$0		\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$425,998
	Escalation				\$0		\$0	\$0	\$0	\$0	\$68,500	\$68,500
	Continaency				\$0		\$0	\$0	\$0	\$0	\$355,901	\$355,901
<hr/>												
—Total	OPC3700 OPERATING PROCEDURES			0	\$0		\$0	\$0	\$0	\$0	\$850,400	\$850,400

OPC3800 START-UP COORDINATION

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

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DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3800 START-UP COORDINATION												
<i>Memo: Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal							\$0	\$0	\$0	\$0	\$125,863
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL Subcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$125,863
	Escalation							\$0	\$0	\$0	\$20,239	\$20,239
	Contingency							\$0	\$0	\$0	\$105,153	\$105,153
—Total	OPC3800 START-UP COORDINATION				0			\$0	\$0	\$0	\$251,254	\$251,254

OPC3900 SPARES

Memo: In support of start-up and testing only. Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	U.C. per LS	0	0	0.06	0	0	0.06
SPARES	9,595,247.00LS	0	\$0	\$0	\$575,715	\$0	\$575,715
Memo: Calculated at 6% of procurement costs less RCS and fabric structures procurement costs.							
Subtotal			\$0	\$0	\$575,715	\$0	\$575,715
Sales Tax			\$0	\$0	\$34,543	\$0	\$34,543
INEEL/Subcontractor Overheads	0.00%		\$0	\$0	\$0	\$0	\$0
Subtotal Estimate							\$610,258
Escalation			\$0	\$0	\$98,129	\$0	\$98,129
Continaency			\$0	\$0	\$509,841	\$0	\$509,841
—Total OPC3900 SPARES		0	\$0	\$0	\$1,210,228	\$0	\$1,218,228

7.0 PROJECT MANAGEMENT

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Also considered were percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.

	PROJECT MANAGEMENT SUPPORT	U.C. per \$	96,817,7410	\$	0			0	0	0	0	0.09	0.09
								\$0	\$0	\$0	\$0	\$8,713,597	\$8,713,597

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 3
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 3-R**

Client: **S. L. Austad**
 Prepared By: **SNW/RDA**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquiDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
7.0 PROJECT MANAGEMENT												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Also considered were percentage allowances derived by the project team on the C&S/ITRU Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.												
Subtotal								\$0	\$0	\$0	\$0	\$8,713,597
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads		0.00%						\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$8,713,597
Escalation								\$0	\$0	\$0	\$932,355	\$932,355
Contingency								\$0	\$0	\$0	\$4,167,644	\$4,167,644
---Total 7.0 PROJECT MANAGEMENT					0			\$0	\$0	\$0	\$13,813,596	\$13,813,596

Subtotal	OU 7-10 STAGE III - RETRIEVAL SYSTEM PROJECT - OPTION #	\$13,108,384	\$3,143,269	\$43,980,467	\$36,719,872	\$51,111,539	\$**,***,***
Sales Tax	3	\$0	\$0	\$2,638,828	\$0	\$0	\$2,638,828
INEEUSubcontractor Overheads		\$4,429,368	\$1,020,812	\$2,744,774	\$1,070,169	\$0	\$9,265,123
Subtotal Estimate		\$2,343,044	\$556,321	\$4,782,823	\$4,167,902	\$5,208,907	\$**,***,***
Escalation		\$9,837,837	\$2,335,793	\$29,368,117	\$22,527,693	\$30,330,320	\$17,058,996
Contingency							\$94,399,760
Total	OU 7-10 STAGE III - RETRIEVAL SYSTEM PROJECT - OPTION # 3	326,679	\$29,718,633	\$7,056,194	\$83,515,009	\$64,485,637	\$86,650,765 \$271,426,238